CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY

REVUE CANADIENNE DE BIOCHIMIE ET BIOLOGIE CELLULAIRE

VOLUME 63, 1985

Author Index / Index des Auteurs

Accorsi, A.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
PAOLINO NINFALI, ELENA PIATTI, AUGUSTO ACCORSI, FULVIO PALMA, ANTONIO FAZI, MARIA GRAZIA TOZZI, and GIORGIO FORNAINI **162**

Addison, W.R.
The nucleotide sequence of $tRNA^{Val}_{3a}$ and $tRNA^{Val}_{3b}$ from *Drosophila melanogaster*
W.R. ADDISON, I.C. GILLAM, S. HAYASHI, and G.M. TENER **176**

Afong, M.
Immunological studies of the uncoupling protein of brown adipose tissue
MICHAEL AFONG, KIMBERLEY A. OLYNYK, HASMUKH V. PATEL, JOHN ARNOLD, SHUEN-KUEI LIAO, and KARL B. FREEMAN **96**

Ahmad, F.
Thermodynamic characterization of the partially denatured states of ribonuclease A in calcium chloride and lithium chloride
FAIZAN AHMAD **1058**

Ansel, A.Z.
Enzymatic sulfation of steroids. XIX. Cortisol sulfotransferase activity, glucocorticoid sulfotransferases, and tyrosine aminotransferase induction in chicken, gerbil, and hamster liver
SANFORD S. SINGER, EDWARD G. GALASKA, THERESA A. FEESER, ROBERT L. BENAK, ANNE Z. ANSEL, and ANNE MOLONEY **23**

Archer, T.K.
The effects of estrogen on apolipoprotein synthesis
ROGER G. DEELEY, SHUI-PANG TAM, and TREVOR K. ARCHER **882**

Arnaud, A.
Purification and properties of an exocellular β-glucosidase of *Candida molischiana* (Zikes) Meyer and Yarrow capable of hydrolyzing soluble cellodextrins
PIERRE GONDÉ, ROBERT RATOMAHENINA, ALAIN ARNAUD, and PIERRE GALZY **1160**

Arnold, J.
Immunological studies of the uncoupling protein of brown adipose tissue
MICHAEL AFONG, KIMBERLEY A. OLYNYK, HASMUKH V. PATEL, JOHN ARNOLD, SHUEN-KUEI LIAO, and KARL B. FREEMAN **96**

Atkinson, B.G.
The intermediate filament protein desmin in cardiac and skeletal muscle from normal and dystrophic (BIO 14.6) hamsters
MICHAEL POLLOCK and BURR G. ATKINSON **430**

Mammalian lymphocytes: stress-induced synthesis of heat-shock proteins *in vitro* and *in vivo*
DAVID RODENHISER, JACK H. JUNG, and BURR G. ATKINSON **711**

Aubin, R.J.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
ANDRÉ FRÉCHETTE, ANN HULETSKY, RÉMY J. AUBIN, GILBERT DE MURCIA, PAUL MANDEL, ANDRÉ LORD, GILLES GRONDIN, and GUY G. POIRIER **764**

Aubry, H.
Studies on the uptake of fatty acids by brush border membranes of the rabbit intestine
P. PROULX, H. AUBRY, I. BRGLEZ, and D.G. WILLIAMSON **249**

Bacchetti, S.
Protein kinase and ATP-binding activity associated with the 72-kdalton single-stranded DNA-binding protein from early region 2A of human adenovirus type 5
PHILIP E. BRANTON, MIKE EVELEGH, DAVID T. ROWE, FRANK L. GRAHAM, and SILVIA BACCHETTI **941**

Bader, M.-F.
Chromaffin cell cytoskeleton: its possible role in secretion
J.-M. TRIFARÓ, M.-F. BADER, and J.-P. DOUCET **661**

Bag, J.
Recovery of normal protein synthesis in heat-shocked chicken myotubes by liposome-mediated transfer of mRNAs
JNANANKUR BAG **231**

Baker, R.R.
The subcellular distribution of free fatty acids released during post-decapitative ischemia in rat cerebral cortex
R. ROY BAKER and ZOU DAO LOH **1183**

Banerjee, D.
Metallothionein synthesis and localization in relation to metal storage in rat liver during gestation
DOUGLAS M. TEMPLETON, DIPONKAR BANERJEE, and M. GEORGE CHERIAN **16**

Banoub, J.H.
Structural investigation of the lipopolysaccharide core isolated from a virulent strain of *Vibrio ordalii*
JOSEPH H. BANOUB and HOWARD J. HODDER **1199**

Occurrence of 3-acetamido-3,6-dideoxy-4-*O*-methyl-L-glucose in the *O*-polysaccharide of *Vibrio anguillarum*
JOSEPH H. BANOUB, FRANCIS MICHON, and FRED COOPER **1265**

Baribault, H.
Dexamethasone can modulate the synthesis and organization of cytokeratins in cultured differentiating rat hepatocytes
NORMAND MARCEAU, HELENE BARIBAULT, and
ISABELLE LEROUX-NICOLLET **448**

Baribeau, J.
Isolation, purification, and partial characterization of stable forms of monomeric bacteriorhodopsin in lauryl sucrose
JOHANNE BARIBEAU and FRANÇOIS BOUCHER **305**

Bastin, B.
Affinity chromatography purification and partial characterization of phytohemagglutinin-receptor glycoproteins from porcine splenic lymphocytes
GILLES DUPUIS, JEAN-PIERRE DOUCET, BÂNÛ BASTIN, and
JEANNINE CARDIN **932**

Binding of phytohemagglutinin to porcine lymphocyte receptors. Time-course studies and comparative binding isotherms using whole cells or cellular receptors incorporated into phospholipid vesicles
GILLES DUPUIS and BÂNÛ BASTIN **1033**

Beatty, L.
In vitro recombination of bacteriophage T7 DNA: Further characterization of the reaction using plasmid DNA
DONALD LEE, DAN VETTER, LINDA BEATTY, and
PAUL SADOWSKI **243**

Bégin-Heick, N.
The effect of the divalent cations Mg^{2+} and Mn^{2+} on adenylate cyclase activity in white and brown adipose tissue of lean and obese (ob/ob) mice
NICOLE BÉGIN-HEICK **7**

Bekhor, I.
Partial characterization of chromosomal proteins tightly bound to chicken erythroid DNA
C.C. LIEW, PETER C. HENTZEN, and ISAAC BEKHOR **824**

Belch, A.
Single-strand breaks or alkali-sensitive sites in the DNA of human myeloma plasma cells and chronic lymphocytic leukemia lymphocytes
L. BROX, A. NG, E. POLLOCK, A. KHALIQ, and A. BELCH **977**

Bem, E.M.
Influence of mercury (II), cadmium (II), methylmercury, and phenylmercury on the kinetic properties of rat liver glutathione peroxidase
E.M. BEM, K. MAILER, and C.M. ELSON **1212**

Benak, R.L.
Enzymatic sulfation of steroids. XIX. Cortisol sulfotransferase activity, glucocorticoid sulfotransferases, and tyrosine aminotransferase induction in chicken, gerbil, and hamster liver
SANFORD S. SINGER, EDWARD G. GALASKA,
THERESA A. FEESER, ROBERT L. BENAK, ANNE Z. ANSEL,
and ANNE MOLONEY **23**

Bendayan, M.
Ultrastructural localization of cytoskeletal proteins in pancreatic secretory cells
MOISE BENDAYAN **680**

Benes, F.M.
Immunostaining of neurofilament protein in human postmortem cortex: A sensitive and specific approach to the pattern analysis of human cortical cytoarchitecture
RONALD E. MAJOCHA, CHARLES A. MAROTTA, and
FRANCINE M. BENES **577**

Berry, L.R.
On the interaction between 5-hydroxytryptamine and *N*-acetylneuraminic acid under aqueous conditions
LESLIE R. BERRY, FRANK V. PUZZUOLI, and
MARK W.C. HATTON **757**

Bettiol, M.F.
Immunological analyses of selected eukaryotic RNA polymerases II
MICHAEL F. BETTIOL, RANDALL T. IRVIN, and
PAUL A. HORGEN **1217**

Bhakoo, M.
Phospholipid-dependent changes in membrane permeability induced by staphylococcal δ-lysin and bee venom melittin
M. BHAKOO, T.H. BIRKBECK, and J.H. FREER **1**

Birkbeck, T.H.
Phospholipid-dependent changes in membrane permeability induced by staphylococcal δ-lysin and bee venom melittin
M. BHAKOO, T.H. BIRKBECK, and J.H. FREER **1**

Bleau, G.
The assay and partial characterization of 3β-hydroxysteroid sulfotransferase of the hamster epididymis
M. BOUTHILLIER, G. BLEAU, A. CHAPDELAINE, and
K.D. ROBERTS **71**

Borisy, G.G.
A monoclonal antitroponin-T cross-reacts with smooth muscle and nonmuscle cells
SOO-SIANG LIM, GORDON E. HERING, and GARY G. BORISY **470**

Boucher, F.
Isolation, purification, and partial characterization of stable forms of monomeric bacteriorhodopsin in lauryl sucrose
JOHANNE BARIBEAU and FRANÇOIS BOUCHER **305**

Effect of phospholipids and detergents on transitions and equilibrium between the bleaching intermediates of rhodopsin
HIROAKI MOTOYAMA, TOSHIAKI HAMANAKA,
NOBUYOKA KAWASE, FRANÇOIS BOUCHER, and YUJI KITÔ **1152**

Boulikas, T.
Interaction of histone H1 with oligonucleosomes *in vitro* provides a convenient method for isolating mononucleosomes
TENI BOULIKAS **1022**

Bouteille, M.
Nuclear RNA-associated proteins and their relationship to the nuclear matrix and related structures in HeLa cells
DOMINIQUE BOUVIER, JEAN HUBERT, ANNIE-PIERRE SÈVE,
and MICHEL BOUTEILLE **631**

Bouthillier, M.
The assay and partial characterization of 3β-hydroxysteroid sulfotransferase of the hamster epididymis
M. BOUTHILLIER, G. BLEAU, A. CHAPDELAINE, and
K.D. ROBERTS **71**

Bouvier, D.
Nuclear RNA-associated proteins and their relationship to the nuclear matrix and related structures in HeLa cells
DOMINIQUE BOUVIER, JEAN HUBERT, ANNIE-PIERRE SÈVE, and MICHEL BOUTEILLE **631**

Bowser, S.S.
Evidence that cell surface motility in *Allogromia* is mediated by cytoplasmic microtubules
SAMUEL S. BOWSER and CONLY L. RIEDER **608**

Branton, P.E.
Protein kinase and ATP-binding activity associated with the 72-kdalton single-stranded DNA-binding protein from early region 2A of human adenovirus type 5
PHILIP E. BRANTON, MIKE EVELEGH, DAVID T. ROWE, FRANK L. GRAHAM, and SILVIA BACCHETTI **941**

Breckenridge, W.C.
The catabolism of very low density lipoproteins
W. CARL BRECKENRIDGE **890**

Brglez, I.
Studies on the uptake of fatty acids by brush border membranes of the rabbit intestine
P. PROULX, H. AUBRY, I. BRGLEZ, and D.G. WILLIAMSON **249**

Bridger, W.A.
Chemical modification and hybrid enzyme formation as probes of the active site and subunit interactions in *Escherichia coli* succinyl-CoA synthetase
MAUREEN D. O'CONNOR-MCCOURT and WILLIAM A. BRIDGER **57**

Brooks, S.P.J.
Erratum: Theory and practical application of coupled enzyme reactions: one and two auxiliary enzymes
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **387**

Erratum: Theory and practical application of coupled enzyme systems: one and two coupling enzymes with mutarotation of an intermediate
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **387**

Broquet, P.
Involvement of phospholipids in the modulation of a membrane-bound brain fucosyltransferase
M. SERRES-GUILLAUMOND, P. BROQUET, and P. LOUISOT **296**

Brown, D.A.
Regulatory effects of potassium and inorganic anions on the NADP-specific malic enzyme of *Escherichia coli*
DEBORAH A. BROWN and ROBERT A. COOK **128**

Brown, D.L.
Localization of nuclear antigens during preparation of nuclear matrices *in situ*
NATHALIE CHALY, JUDY E. LITTLE, and DAVID L. BROWN **644**

Brown, S.A.
Biosynthesis of 6,7-dihydroxycoumarin in *Cichorium intybus*
STEWART A. BROWN **292**

Brox, L.
Single-strand breaks or alkali-sensitive sites in the DNA of human myeloma plasma cells and chronic lymphocytic leukemia lymphocytes
L. BROX, A. NG, E. POLLOCK, A. KHALIQ, and A. BELCH **977**

Brylawski, B.P.
Concerning the location of the GTP hydrolysis site on microtubules
MICHAEL CAPLOW, JOHN SHANKS, and BRUNA PEGORARO BRYLAWSKI **422**

Buckley, J.T.
Cone-shaped lipids increase the susceptibility of phospholipids in bilayers to the action of phospholipases
JAMES THOMAS BUCKLEY **263**

Bundle, D.R.
Development and characterization of monoclonal antibodies to pregnancy-specific β_1-glycoprotein
M.A.J. GIDNEY, D.R. BUNDLE, A. GODARD, and B.W. GRIFFITHS **737**

Busto, F.
Cytoplasmic malate dehydrogenase from *Phycomyces blakesleeanus*: Kinetics and mechanism
FRANCISCO TEIXIDO, DOLORES DE ARRIAGA, FÉLIX BUSTO, and JOAQUIN SOLER **1097**

Cabral, F.R.
Maytansine-resistant mutants of Chinese hamster ovary cells with an alteration in α-tubulin
MATTHEW J. SCHIBLER and FERNANDO R. CABRAL **503**

Callahan, J.W.
Phosphatidylcholine and 4-methylumbelliferyl phosphorylcholine hydrolysis by purified placental sphingomyelinase
STUART J. FREEMAN, PREMA SHANKARAN, LEONHARD S. WOLFE, and JOHN W. CALLAHAN **272**

Calleja, G.B.
Secretion and export of amylolytic activities in *Schwanniomyces alluvius*
C.V. LUSENA, C.C. CHAMPAGNE, and G.B. CALLEJA **366**

Caplow, M.
Concerning the location of the GTP hydrolysis site on microtubules
MICHAEL CAPLOW, JOHN SHANKS, and BRUNA PEGORARO BRYLAWSKI **422**

Cardin, J.
Affinity chromatography purification and partial characterization of phytohemagglutinin-receptor glycoproteins from porcine splenic lymphocytes
GILLES DUPUIS, JEAN-PIERRE DOUCET, BÁNÚ BASTIN, and JEANNINE CARDIN **932**

Cardy, C.A.
The *in vitro* formation of sulfates and glucuronides of estrogens by adult and fetal ovine tissues
R. HOBKIRK and CATHERINE A. CARDY **785**

Chaly, N.
Localization of nuclear antigens during preparation of nuclear matrices *in situ*
NATHALIE CHALY, JUDY E. LITTLE, and DAVID L. BROWN **644**

Champagne, C.C.
Secretion and export of amylolytic activities in *Schwanniomyces alluvius*
C.V. LUSENA, C.C. CHAMPAGNE, and G.B. CALLEJA **366**

Chapdelaine, A.
The assay and partial characterization of 3β-hydroxysteroid sulfotransferase of the hamster epididymis
M. Bouthillier, G. Bleau, A. Chapdelaine, and K.D. Roberts **71**

Chapdelaine, P.
In vitro translation of mRNA for arginine esterase, the major secretory protein of dog prostate, and in vitro processing of the translation product
Pierre Chapdelaine, Jean Y. Dubé, Gilles Frenette, and Roland R. Tremblay **705**

Chatterton, R.T., Jr.
Androgen cytosol binding during compensatory overload-induced skeletal muscle hypertrophy
R.C. Hickson, T.T. Kurowski, T.M. Galassi, D.G. Daniels, and R.T. Chatterton, Jr. **348**

Cheng, S.
Mechanisms of cholesterol synthesis inhibition by D-glucosamine
Susan J. Friedman, Stanley Cheng, and Philip Skehan **1253**

Cherian, M.G.
Metallothionein synthesis and localization in relation to metal storage in rat liver during gestation
Douglas M. Templeton, Diponkar Banerjee, and M. George Cherian **16**

Chicken, C.A.
Effects of bovine serum albumin on the interaction of concanavalin A and succinyl-concanavalin A with phospholipid bilayers
Christina A. Chicken and Frances J. Sharom **64**

Chopra, A.
Genetic and biochemical studies with mutants of mammalian cells affected in microtubule-related proteins other than tubulin: mitochondrial localization of a microtubule-related protein
Radhey S. Gupta, Thomas J. Venner, and Arvind Chopra **489**

Claeyssens, M.
Transfer reactions catalyzed by β-D-xylosidase from *Penicillium wortmanni*
François Deleyn, Marc Claeyssens, Clement K. De Bruyne, and André De Bruyn **204**

Clevette-Radford, N.A.
Four serine proteases from the latex of *Euphorbia tirucalli*
K.R. Lynn and N.A. Clevette-Radford **1093**

Cohen, W.D.
Role of the marginal band in an invertebrate erythrocyte: evidence for a universal mechanical function
Jacquelyn Joseph-Silverstein and William D. Cohen **621**

Cook, H.W.
Evaluation of possible mechanisms of phorbol ester stimulation of phosphatidylcholine synthesis in HeLa cells
H.W. Cook and D.E. Vance **145**

Triacylglycerol as a precursor in phospholipid biosynthesis in cultured neuroblastoma cells: studies with labeled glucose, fatty acid, and triacylglycerol
H.W. Cook and M.W. Spence **919**

Cook, R.A.
Regulatory effects of potassium and inorganic anions on the NADP-specific malic enzyme of *Escherichia coli*
Deborah A. Brown and Robert A. Cook **128**

Cooper, F.
Occurrence of 3-acetamido-3,6-dideoxy-4-*O*-methyl-L-glucose in the *O*-polysaccharide of *Vibrio anguillarum*
Joseph H. Banoub, Francis Michon, and Fred Cooper **1265**

Cumming, D.
Characterization by nuclear magnetic resonance of the concanavalin A binding oligosaccharide on the β_b chain of placental β-hexosaminidase B: lectin binding to the separated polypeptide chains of hexosaminidases A and B
Brian F. O'Dowd, Don Mahuran, Dale Cumming, and J. Alexander Lowden **723**

Czyrski, J.A.
Properties of purified bovine platelet-derived growth factor stimulating proliferation of human and mouse fibroblasts
Barbara Narczewska, Józef A. Czyrski, and Anna D. Inglot **187**

D'Agostaro, G.
Site-directed cleavage of immunoglobulin gene segments by lymphoid cell extracts
Giacomo D'Agostaro, Edith Hevia, Gillian E. Wu, and Helios Murialdo **969**

Daniels, D.G.
Androgen cytosol binding during compensatory overload-induced skeletal muscle hypertrophy
R.C. Hickson, T.T. Kurowski, T.M. Galassi, D.G. Daniels, and R.T. Chatterton, Jr. **348**

Davey, K.G.
The binding of juvenile hormone to membranes of follicle cells in the insect *Rhodnius prolixus*
T.T. Ilenchuk and K.G. Davey **102**

De Arriaga, D.
Cytoplasmic malate dehydrogenase from *Phycomyces blakesleeanus*: Kinetics and mechanism
Francisco Teixido, Dolores De Arriaga, Félix Busto, and Joaquin Soler **1097**

De Bruyn, A.
Transfer reactions catalyzed by β-D-xylosidase from *Penicillium wortmanni*
François Deleyn, Marc Claeyssens, Clement K. De Bruyne, and André De Bruyn **204**

De Bruyne, C.K.
Transfer reactions catalyzed by β-D-xylosidase from *Penicillium wortmanni*
François Deleyn, Marc Claeyssens, Clement K. De Bruyne, and André De Bruyn **204**

Deeley, R.G.
The effects of estrogen on apolipoprotein synthesis
Roger G. Deeley, Shui-Pang Tam, and Trevor K. Archer **882**

Deleyn, F.
Transfer reactions catalyzed by β-D-xylosidase from *Penicillium wortmanni*
FRANÇOIS DELEYN, MARC CLAEYSSENS, CLEMENT K. DE BRUYNE, and ANDRÉ DE BRUYN **204**

de Murcia, G.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
ANDRÉ FRÉCHETTE, ANN HULETSKY, RÉMY J. AUBIN, GILBERT DE MURCIA, PAUL MANDEL, ANDRÉ LORD, GILLES GRONDIN, and GUY G. POIRIER **764**

Derrien, S.
Measurement of vitellogenin from rainbow trout by rocket immunoelectrophoresis: application to the kinetic analysis of estrogen stimulation in the male
JEAN LOUIS MAITRE, CATHERINE LE GUELLEC, STEPHANE DERRIEN, MARTIN TENNISWOOD, and YVES VALOTAIRE **982**

Detmers, P.A.
Elongation of cytoplasmic processes during gametic mating: Models for actin-based motility
PATRICIA A. DETMERS **599**

Dettman, H.D.
A ^{19}F nuclear magnetic resonance study of the interaction of carbon dioxide with fluoro-amino acids
HEATHER D. DETTMAN, JOEL H. WEINER, and BRIAN D. SYKES **1120**

Di Cecco, R.
Activation of folylpolyglutamate synthetase by pteroic acid
P.J. VICKERS, R. DI CECCO, Z.B. PRISTUPA, and K.G. SCRIMGEOUR **777**

Dingle, A.D.
Stable intermicrotubule linkers in the isolated cytostomal apparatus of *Tetramitus*
ALLAN D. DINGLE and DAWN E. LARSON **533**

Dolphin, P.J.
Lipoprotein metabolism and the role of apolipoproteins as metabolic programmers
PETER J. DOLPHIN **850**

Doucet, J.-P.
Chromaffin cell cytoskeleton: its possible role in secretion
J.-M. TRIFARÓ, M.-F. BADER, and J.-P. DOUCET **661**

Affinity chromatography purification and partial characterization of phytohemagglutinin-receptor glycoproteins from porcine splenic lymphocytes
GILLES DUPUIS, JEAN-PIERRE DOUCET, BÂNÚ BASTIN, and JEANNINE CARDIN **932**

Dratewka-Kos, E.
The modulation by serum albumin of rabbit platelet aggregation in response to exogenous sodium arachidonate
ELLA DRATEWKA-KOS, BRIGITTE KINDL, DAVID O. TINKER, and J. CARLTON HSIA **792**

Dubé, J.Y.
In vitro translation of mRNA for arginine esterase, the major secretory protein of dog prostate, and in vitro processing of the translation product
PIERRE CHAPDELAINE, JEAN Y. DUBÉ, GILLES FRENETTE, and ROLAND R. TREMBLAY **705**

Duerre, J.A.
Protein carboxyl methylation–demethylation in rat thymocytes
HAZEL A. FETTERS, JAMES KELLEHER, and JOHN A. DUERRE **1112**

Dunford, H.B.
Spectral and kinetic properties of a cationic peroxidase secreted by cultured peanut cells
ANNE-MARIE LAMBEIR, H. BRIAN DUNFORD, ROBERT B. VAN HUYSTEE, and JERZY LOBARZEWSKI **1086**

Dupuis, G.
Affinity chromatography purification and partial characterization of phytohemagglutinin-receptor glycoproteins from porcine splenic lymphocytes
GILLES DUPUIS, JEAN-PIERRE DOUCET, BÂNÚ BASTIN, and JEANNINE CARDIN **932**

Binding of phytohemagglutinin to porcine lymphocyte receptors. Time-course studies and comparative binding isotherms using whole cells or cellular receptors incorporated into phospholipid vesicles
GILLES DUPUIS and BÂNÚ BASTIN **1033**

Elbrecht, A.
Selective inhibitory effects of thyroid hormones on estrogen-induced protein synthesis in chick embryo liver
ALEX ELBRECHT and CATHERINE B. LAZIER **1206**

Elliott, E.M.
Cloning of 11 α-tubulin gene sequences from the genome of Chinese hamster ovary cells
ELIZABETH M. ELLIOTT, FARIDA SARANGI, GRAHAM HENDERSON, and VICTOR LING **511**

Elson, C.M.
Influence of mercury (II), cadmium (II), methylmercury, and phenylmercury on the kinetic properties of rat liver glutathione peroxidase
E.M. BEM, K. MAILER, and C.M. ELSON **1212**

Endrenyi, L.
A statistical comparison of parameter estimation for the Michaelis–Menten kinetics of human placental hexosaminidase
R. TOMMASINI, L. ENDRENYI, P.A. TAYLOR, D.J. MAHURAN, and J.A. LOWDEN **225**

Espinola, T.
Erratum: Theory and practical application of coupled enzyme reactions: one and two auxiliary enzymes
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **387**

Erratum: Theory and practical application of coupled enzyme systems: one and two coupling enzymes with mutarotation of an intermediate
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER **387**

Evelegh, M.
Protein kinase and ATP-binding activity associated with the 72-kdalton single-stranded DNA-binding protein from early region 2A of human adenovirus type 5
PHILIP E. BRANTON, MIKE EVELEGH, DAVID T. ROWE, FRANK L. GRAHAM, and SILVIA BACCHETTI **941**

Faber, L.E.
Development of a monoclonal antibody to the rabbit 8.5S uterine progestin receptor
KIYOHIDE NAKAO, JOHN E. MYERS, and LEE E. FABER 33

Isolation of dissimilar components of the 8.5S nonactivated uterine progestin receptor
PING-KAUNG KU TAI and LEE E. FABER 41

Fach, B.L.
Association of fodrin with brain microtubules
BARBARA L. FACH, SUSAN F. GRAHAM, and ROBERT A.B. KEATES 372

Fazi, A.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
PAOLINO NINFALI, ELENA PIATTI, AUGUSTO ACCORSI, FULVIO PALMA, ANTONIO FAZI, MARIA GRAZIA TOZZI, and GIORGIO FORNAINI 162

Feeser, T.A.
Enzymatic sulfation of steroids. XIX. Cortisol sulfotransferase activity, glucocorticoid sulfotransferases, and tyrosine aminotransferase induction in chicken, gerbil, and hamster liver
SANFORD S. SINGER, EDWARD G. GALASKA, THERESA A. FEESER, ROBERT L. BENAK, ANNE Z. ANSEL, and ANNE MOLONEY 23

Ferris, R.J.
The cross-linking of human Met-hemoglobin with [^{14}C]dimethyl adipimidate
ROBERT J. FERRIS and D.B. SMITH 195

Fetters, H.A.
Protein carboxyl methylation–demethylation in rat thymocytes
HAZEL A. FETTERS, JAMES KELLEHER, and JOHN A. DUERRE 1112

Flohr, E.J.
Ca^{2+}-specific fluorescence changes in *N*-dansylaminoethyl-labelled oncomodulin
BULENT MUTUS, ELIZABETH J. FLOHR, and JOHN P. MACMANUS 998

Forer, A.
Does actin produce the force that moves a chromosome to the pole during anaphase?
ARTHUR FORER 585

Fornaini, G.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
PAOLINO NINFALI, ELENA PIATTI, AUGUSTO ACCORSI, FULVIO PALMA, ANTONIO FAZI, MARIA GRAZIA TOZZI, and GIORGIO FORNAINI 162

Forstner, G.
Mapping of proteolytic and cyanogen bromide peptides from subunits of intestinal maltase–glucoamylase: evidence for significant homology
L. LEE and G. FORSTNER 257

Fréchette, A.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
ANDRÉ FRÉCHETTE, ANN HULETSKY, RÉMY J. AUBIN, GILBERT DE MURCIA, PAUL MANDEL, ANDRÉ LORD, GILLES GRONDIN, and GUY G. POIRIER 764

Freeman, K.B.
Immunological studies of the uncoupling protein of brown adipose tissue
MICHAEL AFONG, KIMBERLEY A. OLYNYK, HASMUKH V. PATEL, JOHN ARNOLD, SHUEN-KUEI LIAO, and KARL B. FREEMAN 96

Size analysis of uncoupling protein and its precursor from brown adipose tissue of different species
KARL B. FREEMAN, KAREN MEYRICK, HASMUKH V. PATEL, and ROBERT G. RIDLEY 988

Freeman, S.J.
Phosphatidylcholine and 4-methylumbelliferyl phosphorylcholine hydrolysis by purified placental sphingomyelinase
STUART J. FREEMAN, PREMA SHANKARAN, LEONHARD S. WOLFE, and JOHN W. CALLAHAN 272

Freer, J.H.
Phospholipid-dependent changes in membrane permeability induced by staphylococcal δ-lysin and bee venom melittin
M. BHAKOO, T.H. BIRKBECK, and J.H. FREER 1

Frenette, G.
In vitro translation of mRNA for arginine esterase, the major secretory protein of dog prostate, and in vitro processing of the translation product
PIERRE CHAPDELAINE, JEAN Y. DUBÉ, GILLES FRENETTE, and ROLAND R. TREMBLAY 705

Friedman, S.J.
Mechanisms of cholesterol synthesis inhibition by D-glucosamine
SUSAN J. FRIEDMAN, STANLEY CHENG, and PHILIP SKEHAN 1253

Frosch, M.
Comparison of microtubules and microfilaments in *Tipula* iridescent virus-infected and uninfected cells
ROBERT W. SEAGULL, PETER E. LEE, and MONICA FROSCH 543

Fuks, A.
Structural studies of the class II histocompatibility antigens of the AC1 rat
AUDREY J. GOLDNER-SAUVÉ, ABRAHAM FUKS, and RONALD D. GUTTMANN 1241

Galaska, E.G.
Enzymatic sulfation of steroids. XIX. Cortisol sulfotransferase activity, glucocorticoid sulfotransferases, and tyrosine aminotransferase induction in chicken, gerbil, and hamster liver
SANFORD S. SINGER, EDWARD G. GALASKA, THERESA A. FEESER, ROBERT L. BENAK, ANNE Z. ANSEL, and ANNE MOLONEY 23

Galassi, T.M.
Androgen cytosol binding during compensatory overload-induced skeletal muscle hypertrophy
R.C. HICKSON, T.T. KUROWSKI, T.M. GALASSI, D.G. DANIELS, and R.T. CHATTERTON, JR. 348

Galzy, P.
Purification and properties of an exocellular β-glucosidase of *Candida molischiana* (Zikes) Meyer and Yarrow capable of hydrolyzing soluble cellodextrins
PIERRE GONDÉ, ROBERT RATOMAHENINA, ALAIN ARNAUD, and PIERRE GALZY 1160

Gibb, W.
Kinetic comparison of the 3β-hydroxysteroid dehydrogenase activity in human placenta, chorion laeve, and ovary
W. GIBB, J.C. LAVOIE, and M. MORIN-GONTHIER 183

Gidney, M.A.J.
Development and characterization of monoclonal antibodies to pregnancy-specific β_1-glycoprotein
M.A.J. Gidney, D.R. Bundle, A. Godard, and B.W. Griffiths 737

Gillam, I.C.
The nucleotide sequence of $tRNA_{3a}^{Val}$ and $tRNA_{3b}^{Val}$ from *Drosophila melanogaster*
W.R. Addison, I.C. Gillam, S. Hayashi, and G.M. Tener 176

Girgis, G.R.
Translatability of rat kidney mRNA after mercury administration
Shahebina Samji, Maciej J. Kuliszewski, George R. Girgis, and D. McEwen Nicholls 913

Godard, A.
Development and characterization of monoclonal antibodies to pregnancy-specific β_1-glycoprotein
M.A.J. Gidney, D.R. Bundle, A. Godard, and B.W. Griffiths 737

Goldner-Sauvé, A.J.
Structural studies of the class II histocompatibility antigens of the ACI rat
Audrey J. Goldner-Sauvé, Abraham Fuks, and Ronald D. Guttmann 1241

Golsteyn, E.J.
Isolation and characterization of nuclear envelopes from three variant cell lines of the Shionogi mouse mammary carcinoma: Identification of androgen-dependent peptides
Elizabeth J. Golsteyn, Cecilia Po, and Yvonne A. Lefebvre 1231

Gondé, P.
Purification and properties of an exocellular β-glucosidase of *Candida molischiana* (Zikes) Meyer and Yarrow capable of hydrolyzing soluble cellodextrins
Pierre Gondé, Robert Ratomahenina, Alain Arnaud, and Pierre Galzy 1160

Graham, F.L.
Protein kinase and ATP-binding activity associated with the 72-kdalton single-stranded DNA-binding protein from early region 2A of human adenovirus type 5
Philip E. Branton, Mike Evelegh, David T. Rowe, Frank L. Graham, and Silvia Bacchetti 941

Graham, S.F.
Association of fodrin with brain microtubules
Barbara L. Fach, Susan F. Graham, and Robert A.B. Keates 372

Gravel, C.
A monoclonal antibody of β-tubulin distinguishes a subset of neurons and axons in the chick ciliary ganglion
Jacques P. Tremblay, Claude Gravel, and Richard B. Hawkes 458

Basket cell development in the normal and hypothyroid rat cerebellar cortex studied with a monoclonal anti-neurofilament antibody
Nicole Leclerc, Claude Gravel, Audrius Plioplys, and Richard Hawkes 564

Griffiths, B.W.
Development and characterization of monoclonal antibodies to pregnancy-specific β_1-glycoprotein
M.A.J. Gidney, D.R. Bundle, A. Godard, and B.W. Griffiths 737

Grondin, G.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
André Fréchette, Ann Huletsky, Rémy J. Aubin, Gilbert de Murcia, Paul Mandel, André Lord, Gilles Grondin, and Guy G. Poirier 764

Grzelczak, Z.F.
Germin. Compartmentation of the protein, its translatable mRNA, and its biosynthesis among roots, stems, and leaves of wheat seedlings
Zbyszko F. Grzelczak, Sadequr Rahman, Theresa D. Kennedy, and Byron G. Lane 1003

Gupta, R.S.
Genetic and biochemical studies with mutants of mammalian cells affected in microtubule-related proteins other than tubulin: mitochondrial localization of a microtubule-related protein
Radhey S. Gupta, Thomas J. Venner, and Arvind Chopra 489

Chinese hamster ovary cell mutants specifically affected in the phosphorylation of C-purine nucleosides
Kamal D. Mehta and Radhey S. Gupta 1044

Guttmann, R.D.
Structural studies of the class II histocompatibility antigens of the ACI rat
Audrey J. Goldner-Sauvé, Abraham Fuks, and Ronald D. Guttmann 1241

Haberman, H.F.
Role of superoxide and hydrogen peroxide in cell lysis during irradiation in vitro of Ehrlich ascitic carcinoma cells in the presence of melanin
I. Aravindakshan Menon, Surujdeen Persad, Narendranath S. Ranadive, and Herbert F. Haberman 278

Habibi, H.R.
Effects of cytochalasin B on steroid-induced oocyte meiosis and centrifugally induced nuclear movement in the goldfish *Carassius auratus*
Hamid R. Habibi and Charles A. Lessman 743

Haimo, L.T.
Microtubule polarity in taxol-treated isolated spindles
Leah T. Haimo 519

Hamanaka, T.
Effect of phospholipids and detergents on transitions and equilibrium between the bleaching intermediates of rhodopsin
Hiroaki Motoyama, Toshiaki Hamanaka, Nobuyoka Kawase, François Boucher, and Yuji Kitô 1152

Hancock, R.
Chromosomal DNA fragments from mouse cells exposed to an intercalating agent containing a 175-kdalton terminal polypeptide
Ray K. Ralph and Ronald Hancock 780

Harris, L.J.
Tc1(Hin): a form of the transposable element Tc1 in *Caenorhabditis elegans*
A.M. Rose, L.J. Harris, N.R. Mawji, and W.J. Morris 752

Hatton, M.W.C.
On the interaction between 5-hydroxytryptamine and *N*-acetylneuraminic acid under aqueous conditions
LESLIE R. BERRY, FRANK V. PUZZUOLI, and MARK W.C. HATTON **757**

Haug, A.
Citrate chelation as a potential mechanism against aluminum toxicity in cells: the role of calmodulin
CHARLES G. SUHAYDA and ALFRED HAUG **1167**

Haust, M.D.
Glycoproteins on the surface of smooth muscle cells involved in their interaction with type V collagen
JAMES R.A. LEUSHNER and M. DARIA HAUST **1176**

Hawkes, R.
A monoclonal antibody of β-tubulin distinguishes a subset of neurons and axons in the chick ciliary ganglion
JACQUES P. TREMBLAY, CLAUDE GRAVEL, and RICHARD B. HAWKES **458**

Basket cell development in the normal and hypothyroid rat cerebellar cortex studied with a monoclonal anti-neurofilament antibody
NICOLE LECLERC, CLAUDE GRAVEL, AUDRIUS PLIOPLYS, and RICHARD HAWKES **564**

Hayashi, S.
The nucleotide sequence of $tRNA^{Val}_{3a}$ and $tRNA^{Val}_{3b}$ from *Drosophila melanogaster*
W.R. ADDISON, I.C. GILLAM, S. HAYASHI, and G.M. TENER **176**

Hechtman, P.
Substrate binding properties of the human liver hexosaminidase A activator protein
PETER HECHTMAN, CLAUDINE ISAACS, and LOUISE SMITH-JONES **830**

Heffron, R.
Insulin-related material in microbes: similarities and differences from mammalian insulins
DEREK LEROITH, JOSEPH SHILOACH, ROBERT HEFFRON, CHAIM RUBINOVITZ, ROBERT TANENBAUM, and JESSE ROTH **839**

Henderson, G.
Cloning of 11 α-tubulin gene sequences from the genome of Chinese hamster ovary cells
ELIZABETH M. ELLIOTT, FARIDA SARANGI, GRAHAM HENDERSON, and VICTOR LING **511**

Hentzen, P.C.
Partial characterization of chromosomal proteins tightly bound to chicken erythroid DNA
C.C. LIEW, PETER C. HENTZEN, and ISAAC BEKHOR **824**

Hering, G.E.
A monoclonal antitroponin-T cross-reacts with smooth muscle and nonmuscle cells
SOO-SIANG LIM, GORDON E. HERING, and GARY G. BORISY **470**

Hevia, E.
Site-directed cleavage of immunoglobulin gene segments by lymphoid cell extracts
GIACOMO D'AGOSTARO, EDITH HEVIA, GILLIAN E. WU, and HELIOS MURIALDO **969**

Hickson, R.C.
Androgen cytosol binding during compensatory overload-induced skeletal muscle hypertrophy
R.C. HICKSON, T.T. KUROWSKI, T.M. GALASSI, D.G. DANIELS, and R.T. CHATTERTON, JR. **348**

Hobkirk, R.
The *in vitro* formation of sulfates and glucuronides of estrogens by adult and fetal ovine tissues
R. HOBKIRK and CATHERINE A. CARDY **785**

Steroid sulfotransferases and steroid sulfate sulfatases: characteristics and biological roles
R. HOBKIRK **1127**

Hodder, H.J.
Structural investigation of the lipopolysaccharide core isolated from a virulent strain of *Vibrio ordalii*
JOSEPH H. BANOUB and HOWARD J. HODDER **1199**

Hofmann, T.
^1H nuclear magnetic resonance studies of ytterbium-substituted porcine intestinal calcium-binding protein
JUDITH G. SHELLING, THEO HOFMANN, and BRIAN D. SYKES **992**

Horgen, P.A.
Synthesis of an antheridiol-inducible polypeptide during sexual morphogenesis of *Achlya ambisexualis* E87
J. STEPHEN HORTON and PAUL A. HORGEN **355**

Immunological analyses of selected eukaryotic RNA polymerases II
MICHAEL F. BETTIOL, RANDALL T. IRVIN, and PAUL A. HORGEN **1217**

Horton, J.S.
Synthesis of an antheridiol-inducible polypeptide during sexual morphogenesis of *Achlya ambisexualis* E87
J. STEPHEN HORTON and PAUL A. HORGEN **355**

Hsia, J.C.
The modulation by serum albumin of rabbit platelet aggregation in response to exogenous sodium arachidonate
ELLA DRATEWKA-KOS, BRIGITTE KINDL, DAVID O. TINKER, and J. CARLTON HSIA **792**

Hsuanyu, Y.
Kinetics of the hydrolysis of cellobiose calalysed by β-glucosidase
YUCHIONG HSUANYU and KEITH J. LAIDLER **167**

Hubert, J.
Nuclear RNA-associated proteins and their relationship to the nuclear matrix and related structures in HeLa cells
DOMINIQUE BOUVIER, JEAN HUBERT, ANNIE-PIERRE SÈVE, and MICHEL BOUTEILLE **631**

Huletsky, A.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
ANDRÉ FRÉCHETTE, ANN HULETSKY, RÉMY J. AUBIN, GILBERT DE MURCIA, PAUL MANDEL, ANDRÉ LORD, GILLES GRONDIN, and GUY G. POIRIER **764**

Hum, D.W.
In vitro synthesis of the trifunctional protein, methylenetetrahydrofolate dehydrogenase – methenyltetrahydrofolate cyclohydrolase – formyltetrahydrofolate synthetase, in normal and transformed cells
RIMA ROZEN, DEAN W. HUM, and ROBERT E. MACKENZIE **1189**

Ilenchuk, T.T.
The binding of juvenile hormone to membranes of follicle cells in the insect *Rhodnius prolixus*
T.T. Ilenchuk and K.G. Davey **102**

Inglot, A.D.
Properties of purified bovine platelet-derived growth factor stimulating proliferation of human and mouse fibroblasts
Barbara Narczewska, Józef A. Czyrski, and Anna D. Inglot **187**

Innerarity, T.L.
Receptor interactions controlling lipoprotein metabolism
Karl H. Weisgraber, Thomas L. Innerarity, Stanley C. Rall, Jr., and Robert W. Mahley **898**

Irvin, R.T.
Immunological analyses of selected eukaryotic RNA polymerases II
Michael F. Bettiol, Randall T. Irvin, and Paul A. Horgen **1217**

Isaacs, C.
Substrate binding properties of the human liver hexosaminidase A activator protein
Peter Hechtman, Claudine Isaacs, and Louise Smith-Jones **830**

Joseph-Silverstein, J.
Role of the marginal band in an invertebrate erythrocyte: evidence for a universal mechanical function
Jacquelyn Joseph-Silverstein and William D. Cohen **621**

Jung, J.H.
Mammalian lymphocytes: stress-induced synthesis of heat-shock proteins *in vitro* and *in vivo*
David Rodenhiser, Jack H. Jung, and Burr G. Atkinson **711**

Kalant, N.
Incorporation of glucose into glycogen in primary cultures of rat hepatocytes
M. Parniak and N. Kalant **333**

Kates, M.
Changes in lipid composition of oat root membranes as a function of water-deficit stress
C. Liljenberg and M. Kates **77**

Kawase, N.
Effect of phospholipids and detergents on transitions and equilibrium between the bleaching intermediates of rhodopsin
Hiroaki Motoyama, Toshiaki Hamanaka, Nobuyoka Kawase, François Boucher, and Yuji Kitô **1152**

Kay, C.M.
Hydrodynamic and optical properties of the wheat germ E_m protein
William D. McCubbin, Cyril M. Kay, and Byron G. Lane **803**

Trypsin digestion of bovine cardiac troponin C in the presence and absence of calcium
William D. McCubbin and Cyril M. Kay **812**

Keates, R.A.B.
Association of fodrin with brain microtubules
Barbara L. Fach, Susan F. Graham, and Robert A.B. Keates **372**

Keiser, T.
The actin treadmill
Michael Wanger, Thomas Keiser, Jean-Marc Neuhaus, and Albrecht Wegner **414**

Kelleher, J.
Protein carboxyl methylation–demethylation in rat thymocytes
Hazel A. Fetters, James Kelleher, and John A. Duerre **1112**

Kennedy, T.D.
Germin. Compartmentation of the protein, its translatable mRNA, and its biosynthesis among roots, stems, and leaves of wheat seedlings
Zbyszko F. Grzelczak, Sadequr Rahman, Theresa D. Kennedy, and Byron G. Lane **1003**

Khaliq, A.
Single-strand breaks or alkali-sensitive sites in the DNA of human myeloma plasma cells and chronic lymphocytic leukemia lymphocytes
L. Brox, A. Ng, E. Pollock, A. Khaliq, and A. Belch **977**

Khandjian, E.W.
A 105 000 dalton antigen of transformed mouse cells is a stress protein
T.M. Rose and E.W. Khandjian **1258**

Khuller, G.K.
Cerulenin inhibition of lipid synthesis and its reversal by exogenous fatty acids in *Mycobacterium smegmatis* ATCC 607
Sandeep Mahajan and G.K. Khuller **85**

Kindl, B.
The modulation by serum albumin of rabbit platelet aggregation in response to exogenous sodium arachidonate
Ella Dratewka-Kos, Brigitte Kindl, David O. Tinker, and J. Carlton Hsia **792**

Kitô, Y.
Effect of phospholipids and detergents on transitions and equilibrium between the bleaching intermediates of rhodopsin
Hiroaki Motoyama, Toshiaki Hamanaka, Nobuyoka Kawase, François Boucher, and Yuji Kitô **1152**

Kniskern, P.J.
The structure of the specific capsular polysaccharide of *Streptococcus pneumoniae* type 11F (American type 11)
James C. Richards, Malcolm B. Perry, and Peter J. Kniskern **953**

Kocourek, J.
Studies on lectins. LIX. Isolation and properties of lectins from fruiting bodies of *Xerocomus chrysenteron* and *Lactarius lignyotus*
Hana Sychrová, Marie Tichá, and Jan Kocourek **700**

Kovesdi, I.
Actin gene number in the sea star *Pisaster ochraceus*
Imre Kovesdi and Michael J. Smith **1145**

Kuksis, A.
Rapid isolation of a triacylglycerol synthetase complex from rat intestinal mucosa
F. Manganaro and A. Kuksis **107**

Deacylation of endogenously deuterated rat liver microsomal phospholipids by endogenous phospholipases
S. Pind, A. Kuksis, J.J. Myher, and L. Marai **137**

Purification and preliminary characterization of 2-monoacylglycerol acyltransferase from rat intestinal villus cells
F. MANGANARO and A. KUKSIS **341**

Kuliszewski, M.J.
Translatability of rat kidney mRNA after mercury administration
SHAHEBINA SAMJI, MACIEJ J. KULISZEWSKI, GEORGE R. GIRGIS, and D. MCEWEN NICHOLLS **913**

Kurowski, T.T.
Androgen cytosol binding during compensatory overload-induced skeletal muscle hypertrophy
R.C. HICKSON, T.T. KUROWSKI, T.M. GALASSI, D.G. DANIELS, and R.T. CHATTERTON, JR. **348**

Laidler, K.J.
Kinetics of the hydrolysis of cellobiose calalysed by β-glucosidase
YUCHIONG HSUANYU and KEITH J. LAIDLER **167**

Lamb, M.P.
Reconstitution of lymphocyte 5′-nucleotidase in lipid bilayers: behaviour and interaction with concanavalin A
FRANCES J. SHAROM, IAN LORIMER, and MARY P. LAMB **1049**

Lambeir, A.-M.
Spectral and kinetic properties of a cationic peroxidase secreted by cultured peanut cells
ANNE-MARIE LAMBEIR, H. BRIAN DUNFORD, ROBERT B. VAN HUYSTEE, and JERZY LOBARZEWSKI **1086**

Lane, B.G.
Hydrodynamic and optical properties of the wheat germ E_m protein
WILLIAM D. MCCUBBIN, CYRIL M. KAY, and BYRON G. LANE **803**

Germin. Compartmentation of the protein, its translatable mRNA, and its biosynthesis among roots, stems, and leaves of wheat seedlings
ZBYSZKO F. GRZELCZAK, SADEQUR RAHMAN, THERESA D. KENNEDY, and BYRON G. LANE **1003**

Langford, G.M.
N,N′-Ethylene-bis(iodoacetamide) as a probe for structural and functional characteristics of brine shrimp, squid, and bovine tubulins
RICHARD F. LUDUENA, MARY CARMEN ROACH, THOMAS H. MACRAE, and GEORGE M. LANGFORD **439**

Larson, D.E.
Stable intermicrotubule linkers in the isolated cytostomal apparatus of *Tetramitus*
ALLAN D. DINGLE and DAWN E. LARSON **533**

Lavoie, J.C.
Kinetic comparison of the 3β-hydroxysteroid dehydrogenase activity in human placenta, chorion laeve, and ovary
W. GIBB, J.C. LAVOIE, and M. MORIN-GONTHIER **183**

Lazier, C.B.
Selective inhibitory effects of thyroid hormones on estrogen-induced protein synthesis in chick embryo liver
ALEX ELBRECHT and CATHERINE B. LAZIER **1206**

Leclerc, N.
Basket cell development in the normal and hypothyroid rat cerebellar cortex studied with a monoclonal anti-neurofilament antibody
NICOLE LECLERC, CLAUDE GRAVEL, AUDRIUS PLIOPLYS, and RICHARD HAWKES **564**

Lee, D.
In vitro concatemerization of bacteriophage T7 DNA: Role of DNA synthesis and gene 6 exonuclease
DONALD D. LEE and PAUL D. SADOWSKI **237**

In vitro recombination of bacteriophage T7 DNA: Further characterization of the reaction using plasmid DNA
DONALD LEE, DAN VETTER, LINDA BEATTY, and PAUL SADOWSKI **243**

Lee, L.
Mapping of proteolytic and cyanogen bromide peptides from subunits of intestinal maltase–glucoamylase: evidence for significant homology
L. LEE and G. FORSTNER **257**

Lee, P.E.
Comparison of microtubules and microfilaments in *Tipula* iridescent virus-infected and uninfected cells
ROBERT W. SEAGULL, PETER E. LEE, and MONICA FROSCH **543**

Lefebvre, Y.A.
Isolation and characterization of nuclear envelopes from three variant cell lines of the Shionogi mouse mammary carcinoma: Identification of androgen-dependent peptides
ELIZABETH J. GOLSTEYN, CECILIA PO, and YVONNE A. LEFEBVRE **1231**

Le Guellec, C.
Measurement of vitellogenin from rainbow trout by rocket immunoelectrophoresis: application to the kinetic analysis of estrogen stimulation in the male
JEAN LOUIS MAITRE, CATHERINE LE GUELLEC, STEPHANE DERRIEN, MARTIN TENNISWOOD, and YVES VALOTAIRE **982**

LeRoith, D.
Insulin-related material in microbes: similarities and differences from mammalian insulins
DEREK LEROITH, JOSEPH SHILOACH, ROBERT HEFFRON, CHAIM RUBINOVITZ, ROBERT TANENBAUM, and JESSE ROTH **839**

Leroux-Nicollet, I.
Dexamethasone can modulate the synthesis and organization of cytokeratins in cultured differentiating rat hepatocytes
NORMAND MARCEAU, HELENE BARIBAULT, and ISABELLE LEROUX-NICOLLET **448**

Lessman, C.A.
Effects of cytochalasin B on steroid-induced oocyte meiosis and centrifugally induced nuclear movement in the goldfish *Carassius auratus*
HAMID R. HABIBI and CHARLES A. LESSMAN **743**

Leushner, J.R.A.
Glycoproteins on the surface of smooth muscle cells involved in their interaction with type V collagen
JAMES R.A. LEUSHNER and M. DARIA HAUST **1176**

Lewis, K.E.
Characteristics of myoblasts isolated from golden Syrian and dystrophic (strain CHF-146) hamsters
STEPHEN K. NG and KEITH E. LEWIS **730**

Liao, S.-K.
Immunological studies of the uncoupling protein of brown adipose tissue
MICHAEL AFONG, KIMBERLEY A. OLYNYK, HASMUKH V. PATEL, JOHN ARNOLD, SHUEN-KUEI LIAO, and KARL B. FREEMAN **96**

Liew, C.C.
Partial characterization of chromosomal proteins tightly bound to chicken erythroid DNA
C.C. Liew, Peter C. Hentzen, and Isaac Bekhor **824**

Liljenberg, C.
Changes in lipid composition of oat root membranes as a function of water-deficit stress
C. Liljenberg and M. Kates **77**

Lim, S.-S.
A monoclonal antitroponin-T cross-reacts with smooth muscle and nonmuscle cells
Soo-Siang Lim, Gordon E. Hering, and Gary G. Borisy **470**

Ling, V.
Cloning of 11 α-tubulin gene sequences from the genome of Chinese hamster ovary cells
Elizabeth M. Elliott, Farida Sarangi, Graham Henderson, and Victor Ling **511**

Lingwood, C.A.
Protein–glycolipid interactions during spermatogenesis. Binding of specific germ cell proteins to sulfatoxygalactosylacylalkylglycerol, the major glycolipid of mammalian male germ cells
C.A. Lingwood **1077**

Little, J.E.
Localization of nuclear antigens during preparation of nuclear matrices *in situ*
Nathalie Chaly, Judy E. Little, and David L. Brown **644**

Lobarzewski, J.
Spectral and kinetic properties of a cationic peroxidase secreted by cultured peanut cells
Anne-Marie Lambeir, H. Brian Dunford, Robert B. van Huystee, and Jerzy Lobarzewski **1086**

Locke, J.
The ribosomal RNA genes of *Locusta migratoria*: copy number and evidence for underreplication in a polyploid tissue
M. Oishi, J. Locke, and G.R. Wyatt **1064**

Loh, Z.D.
The subcellular distribution of free fatty acids released during post-decapitative ischemia in rat cerebral cortex
R. Roy Baker and Zou Dao Loh **1183**

Lord, A.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
André Fréchette, Ann Huletsky, Rémy J. Aubin, Gilbert de Murcia, Paul Mandel, André Lord, Gilles Grondin, and Guy G. Poirier **764**

Lorimer, I.
Reconstitution of lymphocyte 5′-nucleotidase in lipid bilayers: behaviour and interaction with concanavalin A
Frances J. Sharom, Ian Lorimer, and Mary P. Lamb **1049**

Louisot, P.
Involvement of phospholipids in the modulation of a membrane-bound brain fucosyltransferase
M. Serres-Guillaumond, P. Broquet, and P. Louisot **296**

Lowden, J.A.
Discrimination of the isozymes of human placental hexosaminidase by kinetic parameter estimation
R. Tommasini, D.J. Mahuran, and J.A. Lowden **219**

A statistical comparison of parameter estimation for the Michaelis–Menten kinetics of human placental hexosaminidase
R. Tommasini, L. Endrenyi, P.A. Taylor, D.J. Mahuran, and J.A. Lowden **225**

Characterization by nuclear magnetic resonance of the concanavalin A binding oligosaccharide on the β_b chain of placental β-hexosaminidase B: lectin binding to the separated polypeptide chains of hexosaminidases A and B
Brian F. O'Dowd, Don Mahuran, Dale Cumming, and J. Alexander Lowden **723**

Luduena, R.F.
N,N′-Ethylene-bis(iodoacetamide) as a probe for structural and functional characteristics of brine shrimp, squid, and bovine tubulins
Richard F. Luduena, Mary Carmen Roach, Thomas H. MacRae, and George M. Langford **439**

Lund, K.
Cell sonicates used in the analysis of how measles and herpes simplex type 1 virus infections influence Vero cell mitochondrial calcium uptake
Karen Lund and Barry Ziola **1194**

Lusena, C.V.
Secretion and export of amylolytic activities in *Schwanniomyces alluvius*
C.V. Lusena, C.C. Champagne, and G.B. Calleja **366**

Lynn, K.R.
Four serine proteases from the latex of *Euphorbia tirucalli*
K.R. Lynn and N.A. Clevette-Radford **1093**

Mackenzie, R.E.
In vitro synthesis of the trifunctional protein, methylenetetrahydrofolate dehydrogenase – methenyltetrahydrofolate cyclohydrolase – formyltetrahydrofolate synthetase, in normal and transformed cells
Rima Rozen, Dean W. Hum, and Robert E. Mackenzie **1189**

MacManus, J.P.
Ca^{2+}-specific fluorescence changes in *N*-dansylaminoethyl-labelled oncomodulin
Bulent Mutus, Elizabeth J. Flohr, and John P. MacManus **998**

MacRae, T.H.
N,N′-Ethylene-bis(iodoacetamide) as a probe for structural and functional characteristics of brine shrimp, squid, and bovine tubulins
Richard F. Luduena, Mary Carmen Roach, Thomas H. MacRae, and George M. Langford **439**

Madsen, N.B.
Rabbit liver phosphorylase *a* phosphatase: regulation by glucose and caffeine
Michael O. Monanu and Neil B. Madsen **115**

Mahajan, S.
Cerulenin inhibition of lipid synthesis and its reversal by exogenous fatty acids in *Mycobacterium smegmatis* ATCC 607
Sandeep Mahajan and G.K. Khuller **85**

Mahley, R.W.
Receptor interactions controlling lipoprotein metabolism
KARL H. WEISGRABER, THOMAS L. INNERARITY, STANLEY C. RALL, JR., and ROBERT W. MAHLEY **898**

Mahuran, D.J.
Discrimination of the isozymes of human placental hexosaminidase by kinetic parameter estimation
R. TOMMASINI, D.J. MAHURAN, and J.A. LOWDEN **219**

A statistical comparison of parameter estimation for the Michaelis–Menten kinetics of human placental hexosaminidase
R. TOMMASINI, L. ENDRENYI, P.A. TAYLOR, D.J. MAHURAN, and J.A. LOWDEN **225**

Characterization by nuclear magnetic resonance of the concanavalin A binding oligosaccharide on the β_b chain of placental β-hexosaminidase B: lectin binding to the separated polypeptide chains of hexosaminidases A and B
BRIAN F. O'DOWD, DON MAHURAN, DALE CUMMING, and J. ALEXANDER LOWDEN **723**

Mailer, K.
Influence of mercury (II), cadmium (II), methylmercury, and phenylmercury on the kinetic properties of rat liver glutathione peroxidase
E.M. BEM, K. MAILER, and C.M. ELSON **1212**

Maitre, J.L.
Measurement of vitellogenin from rainbow trout by rocket immunoelectrophoresis: application to the kinetic analysis of estrogen stimulation in the male
JEAN LOUIS MAITRE, CATHERINE LE GUELLEC, STEPHANE DERRIEN, MARTIN TENNISWOOD, and YVES VALOTAIRE **982**

Majocha, R.E.
Immunostaining of neurofilament protein in human postmortem cortex: A sensitive and specific approach to the pattern analysis of human cortical cytoarchitecture
RONALD E. MAJOCHA, CHARLES A. MAROTTA, and FRANCINE M. BENES **577**

Mandel, P.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
ANDRE FRECHETTE, ANN HULETSKY, REMY J. AUBIN, GILBERT DE MURCIA, PAUL MANDEL, ANDRE LORD, GILLES GRONDIN, and GUY G. POIRIER **764**

Manganaro, F.
Rapid isolation of a triacylglycerol synthetase complex from rat intestinal mucosa
F. MANGANARO and A. KUKSIS **107**

Purification and preliminary characterization of 2-monoacylglycerol acyltransferase from rat intestinal villus cells
F. MANGANARO and A. KUKSIS **341**

Mantsch, H.H.
Thermotropic phase behavior of the platelet-activating factor: an infrared spectroscopic study
ERNEST C. MUSHAYAKARARA and HENRY H. MANTSCH **1071**

Marai, L.
Deacylation of endogenously deuterated rat liver microsomal phospholipids by endogenous phospholipases
S. PIND, A. KUKSIS, J.J. MYHER, and L. MARAI **137**

Marceau, N.
Dexamethasone can modulate the synthesis and organization of cytokeratins in cultured differentiating rat hepatocytes
NORMAND MARCEAU, HELENE BARIBAULT, and ISABELLE LEROUX-NICOLLET **448**

Marcel, Y.L.
The use of monoclonal antibodies to probe human apolipoprotein B structure and function
ROSS W. MILNE and YVES L. MARCEL **906**

Marotta, C.A.
Immunostaining of neurofilament protein in human postmortem cortex: A sensitive and specific approach to the pattern analysis of human cortical cytoarchitecture
RONALD E. MAJOCHA, CHARLES A. MAROTTA, and FRANCINE M. BENES **577**

Mawji, N.R.
Tc1(Hin): a form of the transposable element Tc1 in *Caenorhabditis elegans*
A.M. ROSE, L.J. HARRIS, N.R. MAWJI, and W.J. MORRIS **752**

McCubbin, W.D.
Hydrodynamic and optical properties of the wheat germ E_m protein
WILLIAM D. MCCUBBIN, CYRIL M. KAY, and BYRON G. LANE **803**

Trypsin digestion of bovine cardiac troponin C in the presence and absence of calcium
WILLIAM D. MCCUBBIN and CYRIL M. KAY **812**

McCurdy, J.D.
Effect of adroxazine, a heterocyclic compound of the adrenals, on the rate of replication of lymphoblastoid cells
F.A.H. RICE, J.D. MCCURDY, and C. ORESAJO **122**

Mehta, K.D.
Chinese hamster ovary cell mutants specifically affected in the phosphorylation of C-purine nucleosides
KAMAL D. MEHTA and RADHEY S. GUPTA **1044**

Meighen, E.
ATP turnover by the fatty acid reductase complex of *Photobacterium phosphoreum*
ANGEL RODRIGUEZ, IVAN R. NABI, and EDWARD MEIGHEN **1106**

Menon, I.A.
Role of superoxide and hydrogen peroxide in cell lysis during irradiation in vitro of Ehrlich ascitic carcinoma cells in the presence of melanin
I. ARAVINDAKSHAN MENON, SURUJDEEN PERSAD, NARENDRANATH S. RANADIVE, and HERBERT F. HABERMAN **278**

Meyrick, K.
Size analysis of uncoupling protein and its precursor from brown adipose tissue of different species
KARL B. FREEMAN, KAREN MEYRICK, HASMUKH V. PATEL, and ROBERT G. RIDLEY **988**

Michon, F.
Occurrence of 3-acetamido-3,6-dideoxy-4-*O*-methyl-L-glucose in the *O*-polysaccharide of *Vibrio anguillarum*
JOSEPH H. BANOUB, FRANCIS MICHON, and FRED COOPER **1265**

Milne, R.W.
The use of monoclonal antibodies to probe human apolipoprotein B structure and function
ROSS W. MILNE and YVES L. MARCEL **906**

Mitchell, E.J.
Actin and tubulin in *Tetrahymena*
E. Jane Mitchell, Selma Zimmerman, and Arthur M. Zimmerman **389**

Moloney, A.
Enzymatic sulfation of steroids. XIX. Cortisol sulfotransferase activity, glucocorticoid sulfotransferases, and tyrosine aminotransferase induction in chicken, gerbil, and hamster liver
Sanford S. Singer, Edward G. Galaska, Theresa A. Feeser, Robert L. Benak, Anne Z. Ansel, and Anne Moloney **23**

Monanu, M.O.
Rabbit liver phosphorylase *a* phosphatase: regulation by glucose and caffeine
Michael O. Monanu and Neil B. Madsen **115**

Mookerjea, S.
Contrasting effect of phosphorylcholine-binding protein from rat and rabbit on heparin–lipoprotein interaction: a role of sialic acid
Uday Saxena, Arun Nagpurkar, and Sailen Mookerjea **1014**

Morin-Gonthier, M.
Kinetic comparison of the 3β-hydroxysteroid dehydrogenase activity in human placenta, chorion laeve, and ovary
W. Gibb, J.C. Lavoie, and M. Morin-Gonthier **183**

Morris, W.J.
Tc1(Hin): a form of the transposable element Tc1 in *Caenorhabditis elegans*
A.M. Rose, L.J. Harris, N.R. Mawji, and W.J. Morris **752**

Motoyama, H.
Effect of phospholipids and detergents on transitions and equilibrium between the bleaching intermediates of rhodopsin
Hiroaki Motoyama, Toshiaki Hamanaka, Nobuyoka Kawase, François Boucher, and Yuji Kitō **1152**

Murialdo, H.
Site-directed cleavage of immunoglobulin gene segments by lymphoid cell extracts
Giacomo D'Agostaro, Edith Hevia, Gillian E. Wu, and Helios Murialdo **969**

Mushayakarara, E.C.
Thermotropic phase behavior of the platelet-activating factor: an infrared spectroscopic study
Ernest C. Mushayakarara and Henry H. Mantsch **1071**

Mutus, B.
Ca^{2+}-specific fluorescence changes in *N*-dansylaminoethyl-labelled oncomodulin
Bulent Mutus, Elizabeth J. Flohr, and John P. MacManus **998**

Myers, J.E.
Development of a monoclonal antibody to the rabbit 8.5S uterine progestin receptor
Kiyohide Nakao, John E. Myers, and Lee E. Faber **33**

Myher, J.J.
Deacylation of endogenously deuterated rat liver microsomal phospholipids by endogenous phospholipases
S. Pind, A. Kuksis, J.J. Myher, and L. Marai **137**

Nabi, I.R.
ATP turnover by the fatty acid reductase complex of *Photobacterium phosphoreum*
Angel Rodriguez, Ivan R. Nabi, and Edward Meighen **1106**

Nagpurkar, A.
Contrasting effect of phosphorylcholine-binding protein from rat and rabbit on heparin–lipoprotein interaction: a role of sialic acid
Uday Saxena, Arun Nagpurkar, and Sailen Mookerjea **1014**

Nakao, K.
Development of a monoclonal antibody to the rabbit 8.5S uterine progestin receptor
Kiyohide Nakao, John E. Myers, and Lee E. Faber **33**

Narczewska, B.
Properties of purified bovine platelet-derived growth factor stimulating proliferation of human and mouse fibroblasts
Barbara Narczewska, Józef A. Czyrski, and Anna D. Inglot **187**

Nazar, R.N.
The Ribosome: A biochemist's mechano set
Ross N. Nazar **313**

Neuhaus, J.-M.
The actin treadmill
Michael Wanger, Thomas Keiser, Jean-Marc Neuhaus, and Albrecht Wegner **414**

Ng, A.
Single-strand breaks or alkali-sensitive sites in the DNA of human myeloma plasma cells and chronic lymphocytic leukemia lymphocytes
L. Brox, A. Ng, E. Pollock, A. Khaliq, and A. Belch **977**

Ng, S.K.
Characteristics of myoblasts isolated from golden Syrian and dystrophic (strain CHF-146) hamsters
Stephen K. Ng and Keith E. Lewis **730**

Nicholls, D.M.
Translatability of rat kidney mRNA after mercury administration
Shahebina Samji, Maciej J. Kuliszewski, George R. Girgis, and D. McEwen Nicholls **913**

Nicholls, P.
Complexes of cytochrome caa_3 from the thermophilic bacterium PS3 formed with ligands and during catalytic activity
N. Sone and P. Nicholls **153**

Ninfali, P.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
Paolino Ninfali, Elena Piatti, Augusto Accorsi, Fulvio Palma, Antonio Fazi, Maria Grazia Tozzi, and Giorgio Fornaini **162**

Oakley, B.R.
Microtubule mutants
Berl R. Oakley **479**

O'Connor-McCourt, M.D.
Chemical modification and hybrid enzyme formation as probes of the active site and subunit interactions in *Escherichia coli* succinyl-CoA synthetase
Maureen D. O'Connor-McCourt and William A. Bridger **57**

O'Dowd, B.F.
Characterization by nuclear magnetic resonance of the concanavalin A binding oligosaccharide on the β_0 chain of placental β-hexosaminidase B: lectin binding to the separated polypeptide chains of hexosaminidases A and B
BRIAN F. O'DOWD, DON MAHURAN, DALE CUMMING, and J. ALEXANDER LOWDEN **723**

Oishi, M.
The ribosomal RNA genes of *Locusta migratoria*: copy number and evidence for underreplication in a polyploid tissue
M. OISHI, J. LOCKE, and G.R. WYATT **1064**

Olafson, R.W.
Thymus metallothionein: regulation of zinc-thionein in the aging mouse
R.W. OLAFSON **91**

Olynyk, K.A.
Immunological studies of the uncoupling protein of brown adipose tissue
MICHAEL AFONG, KIMBERLEY A. OLYNYK, HASMUKH V. PATEL, JOHN ARNOLD, SHUEN-KUEI LIAO, and KARL B. FREEMAN **96**

Opas, M.
The focal adhesions of chick retinal pigmented epithelial cells
MICHAŁ OPAS **553**

Oresajo, C.
Effect of adroxazine, a heterocyclic compound of the adrenals, on the rate of replication of lymphoblastoid cells
F.A.H. RICE, J.D. MCCURDY, and C. ORESAJO **122**

Paetkau, V.
Molecular biology of interleukin 2
VERNER PAETKAU **691**

Palma, F.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
PAOLINO NINFALI, ELENA PIATTI, AUGUSTO ACCORSI, FULVIO PALMA, ANTONIO FAZI, MARIA GRAZIA TOZZI, and GIORGIO FORNAINI **162**

Palmer, F.B.S.C.
Polyphosphoinositide metabolism in aging human erythrocytes
FREDERICK B. ST. C. PALMER **927**

Paranchych, W.
Studies on the primary structure and antigenic determinants of pilin isolated from *Pseudomonas aeruginosa* K
PARIMI A. SASTRY, JOYCE R. PEARLSTONE, LAWRENCE B. SMILLIE, and WILLIAM PARANCHYCH **284**

Parniak, M.
Incorporation of glucose into glycogen in primary cultures of rat hepatocytes
M. PARNIAK and N. KALANT **333**

Patel, H.V.
Immunological studies of the uncoupling protein of brown adipose tissue
MICHAEL AFONG, KIMBERLEY A. OLYNYK, HASMUKH V. PATEL, JOHN ARNOLD, SHUEN-KUEI LIAO, and KARL B. FREEMAN **96**

Size analysis of uncoupling protein and its precursor from brown adipose tissue of different species
KARL B. FREEMAN, KAREN MEYRICK, HASMUKH V. PATEL, and ROBERT G. RIDLEY **988**

Patil, R.V.
Endo-type mode of action of (1 → 4)-β-D-glucan cellobiohydrolase from *Sclerotium rolfsii*
JAI C. SADANA and RAJKUMAR V. PATIL **1250**

Pearlstone, J.R.
The interaction of rabbit skeletal muscle troponin-T fragments with troponin-I
JOYCE R. PEARLSTONE and LAWRENCE B. SMILLIE **212**

Studies on the primary structure and antigenic determinants of pilin isolated from *Pseudomonas aeruginosa* K
PARIMI A. SASTRY, JOYCE R. PEARLSTONE, LAWRENCE B. SMILLIE, and WILLIAM PARANCHYCH **284**

Pelcher, L.E.
Site-specific cleavage of tobacco mosaic virus RNA: A study of factors influencing the cleavage
M. SALEEM and L.E. PELCHER **382**

Perry, M.B.
The structure of the specific capsular polysaccharide of *Streptococcus pneumoniae* type 11F (American type 11)
JAMES C. RICHARDS, MALCOLM B. PERRY, and PETER J. KNISKERN **953**

Persad, S.
Role of superoxide and hydrogen peroxide in cell lysis during irradiation in vitro of Ehrlich ascitic carcinoma cells in the presence of melanin
I. ARAVINDAKSHAN MENON, SURUJDEEN PERSAD, NARENDRANATH S. RANADIVE, and HERBERT F. HABERMAN **278**

Piatti, E.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
PAOLINO NINFALI, ELENA PIATTI, AUGUSTO ACCORSI, FULVIO PALMA, ANTONIO FAZI, MARIA GRAZIA TOZZI, and GIORGIO FORNAINI **162**

Pind, S.
Deacylation of endogenously deuterated rat liver microsomal phospholipids by endogenous phospholipases
S. PIND, A. KUKSIS, J.J. MYHER, and L. MARAI **137**

Plioplys, A.
Basket cell development in the normal and hypothyroid rat cerebellar cortex studied with a monoclonal anti-neurofilament antibody
NICOLE LECLERC, CLAUDE GRAVEL, AUDRIUS PLIOPLYS, and RICHARD HAWKES **564**

Po, C.
Isolation and characterization of nuclear envelopes from three variant cell lines of the Shionogi mouse mammary carcinoma: Identification of androgen-dependent peptides
ELIZABETH J. GOLSTEYN, CECILIA PO, and YVONNE A. LEFEBVRE **1231**

Poirier, G.G.
Poly(ADP-ribosyl)ation of chromatin: kinetics of relaxation and its effect on chromatin solubility
ANDRÉ FRÉCHETTE, ANN HULETSKY, RÉMY J. AUBIN, GILBERT DE MURCIA, PAUL MANDEL, ANDRÉ LORD, GILLES GRONDIN, and GUY G. POIRIER **764**

Pollock, E.
Single-strand breaks or alkali-sensitive sites in the DNA of human myeloma plasma cells and chronic lymphocytic leukemia lymphocytes
L. Brox, A. Ng, E. Pollock, A. Khaliq, and A. Belch **977**

Pollock, M.
The intermediate filament protein desmin in cardiac and skeletal muscle from normal and dystrophic (BIO 14.6) hamsters
Michael Pollock and Burr G. Atkinson **430**

Pon, D.J.
The presence of a heat-stable cytosolic factor in rat submandibular gland which activates Na^+,K^+-ATPase
D.J. Pon, D.J. Stewart, and A.K. Sen **774**

Porter, J.W.
Isolation, purification, and characterization of a peptide that contains the β-ketoacyl reductase, enoyl reductase, and β-hydroxyacyl dehydrase activities of the pigeon liver fatty acid synthetase
Rajinder N. Puri and John W. Porter **50**

Pristupa, Z.B.
Activation of folylpolyglutamate synthetase by pteroic acid
P.J. Vickers, R. Di Cecco, Z.B. Pristupa, and K.G. Scrimgeour **777**

Proulx, P.
Studies on the uptake of fatty acids by brush border membranes of the rabbit intestine
P. Proulx, H. Aubry, I. Brglez, and D.G. Williamson **249**

Puri, R.N.
Isolation, purification, and characterization of a peptide that contains the β-ketoacyl reductase, enoyl reductase, and β-hydroxyacyl dehydrase activities of the pigeon liver fatty acid synthetase
Rajinder N. Puri and John W. Porter **50**

Puzzuoli, F.V.
On the interaction between 5-hydroxytryptamine and *N*-acetylneuraminic acid under aqueous conditions
Leslie R. Berry, Frank V. Puzzuoli, and Mark W.C. Hatton **757**

Rahman, S.
Germin. Compartmentation of the protein, its translatable mRNA, and its biosynthesis among roots, stems, and leaves of wheat seedlings
Zbyszko F. Grzelczak, Sadequr Rahman, Theresa D. Kennedy, and Byron G. Lane **1003**

Rall, S.C., Jr.
Receptor interactions controlling lipoprotein metabolism
Karl H. Weisgraber, Thomas L. Innerarity, Stanley C. Rall, Jr., and Robert W. Mahley **898**

Ralph, R.K.
Chromosomal DNA fragments from mouse cells exposed to an intercalating agent containing a 175-kdalton terminal polypeptide
Ray K. Ralph and Ronald Hancock **780**

Ranadive, N.S.
Role of superoxide and hydrogen peroxide in cell lysis during irradiation in vitro of Ehrlich ascitic carcinoma cells in the presence of melanin
I. Aravindakshan Menon, Surujdeen Persad, Narendranath S. Ranadive, and Herbert F. Haberman **278**

Ratomahenina, R.
Purification and properties of an exocellular β-glucosidase of *Candida molischiana* (Zikes) Meyer and Yarrow capable of hydrolyzing soluble cellodextrins
Pierre Gondé, Robert Ratomahenina, Alain Arnaud, and Pierre Galzy **1160**

Rice, F.A.H.
Effect of adroxazine, a heterocyclic compound of the adrenals, on the rate of replication of lymphoblastoid cells
F.A.H. Rice, J.D. McCurdy, and C. Oresajo **122**

Richards, J.C.
The structure of the specific capsular polysaccharide of *Streptococcus pneumoniae* type 11F (American type 11)
James C. Richards, Malcolm B. Perry, and Peter J. Kniskern **953**

Ridley, R.G.
Size analysis of uncoupling protein and its precursor from brown adipose tissue of different species
Karl B. Freeman, Karen Meyrick, Hasmukh V. Patel, and Robert G. Ridley **988**

Rieder, C.L.
Evidence that cell surface motility in *Allogromia* is mediated by cytoplasmic microtubules
Samuel S. Bowser and Conly L. Rieder **608**

Rixon, R.H.
1α,25-Dihydroxyvitamin D_3 enables regenerating liver cells to make functional ribonucleotide reductase subunits and replicate DNA in thyroparathyroidectomized rats
T. Youdale, J.F. Whitfield, and R.H. Rixon **319**

Roach, M.C.
N,N'-Ethylene-bis(iodoacetamide) as a probe for structural and functional characteristics of brine shrimp, squid, and bovine tubulins
Richard F. Luduena, Mary Carmen Roach, Thomas H. MacRae, and George M. Langford **439**

Roberts, K.D.
The assay and partial characterization of 3β-hydroxysteroid sulfotransferase of the hamster epididymis
M. Bouthillier, G. Bleau, A. Chapdelaine, and K.D. Roberts **71**

Rodenhiser, D.
Mammalian lymphocytes: stress-induced synthesis of heat-shock proteins *in vitro* and *in vivo*
David Rodenhiser, Jack H. Jung, and Burr G. Atkinson **711**

Rodriguez, A.
ATP turnover by the fatty acid reductase complex of *Photobacterium phosphoreum*
Angel Rodriguez, Ivan R. Nabi, and Edward Meighen **1106**

Rose, A.M.
Tc1(Hin): a form of the transposable element Tc1 in *Caenorhabditis elegans*
A.M. Rose, L.J. Harris, N.R. Mawji, and W.J. Morris **752**

Rose, T.M.
A 105 000 dalton antigen of transformed mouse cells is a stress protein
T.M. Rose and E.W. Khandjian **1258**

Roth, J.
Insulin-related material in microbes: similarities and differences from mammalian insulins
DEREK LEROITH, JOSEPH SHILOACH, ROBERT HEFFRON, CHAIM RUBINOVITZ, ROBERT TANENBAUM, and JESSE ROTH **839**

Rowe, D.T.
Protein kinase and ATP-binding activity associated with the 72-kdalton single-stranded DNA-binding protein from early region 2A of human adenovirus type 5
PHILIP E. BRANTON, MIKE EVELEGH, DAVID T. ROWE, FRANK L. GRAHAM, and SILVIA BACCHETTI **941**

Rozen, R.
In vitro synthesis of the trifunctional protein, methylenetetrahydrofolate dehydrogenase – methenyltetrahydrofolate cyclohydrolase – formyltetrahydrofolate synthetase, in normal and transformed cells
RIMA ROZEN, DEAN W. HUM, and ROBERT E. MACKENZIE **1189**

Rubinovitz, C.
Insulin-related material in microbes: similarities and differences from mammalian insulins
DEREK LEROITH, JOSEPH SHILOACH, ROBERT HEFFRON, CHAIM RUBINOVITZ, ROBERT TANENBAUM, and JESSE ROTH **839**

Sadana, J.C.
Endo-type mode of action of (1 → 4)-β-D-glucan cellobiohydrolase from *Sclerotium rolfsii*
JAI C. SADANA and RAJKUMAR V. PATIL **1250**

Sadowski, P.
In vitro concatemerization of bacteriophage T7 DNA: Role of DNA synthesis and gene 6 exonuclease
DONALD D. LEE and PAUL D. SADOWSKI **237**

In vitro recombination of bacteriophage T7 DNA: Further characterization of the reaction using plasmid DNA
DONALD LEE, DAN VETTER, LINDA BEATTY, and PAUL SADOWSKI **243**

Saleem, M.
Site-specific cleavage of tobacco mosaic virus RNA: A study of factors influencing the cleavage
M. SALEEM and L.E. PELCHER **382**

Samji, S.
Translatability of rat kidney mRNA after mercury administration
SHAHEBINA SAMJI, MACIEJ J. KULISZEWSKI, GEORGE R. GIRGIS, and D. MCEWEN NICHOLLS **913**

Sarangi, F.
Cloning of 11 α-tubulin gene sequences from the genome of Chinese hamster ovary cells
ELIZABETH M. ELLIOTT, FARIDA SARANGI, GRAHAM HENDERSON, and VICTOR LING **511**

Sastry, P.A.
Studies on the primary structure and antigenic determinants of pilin isolated from *Pseudomonas aeruginosa* K
PARIMI A. SASTRY, JOYCE R. PEARLSTONE, LAWRENCE B. SMILLIE, and WILLIAM PARANCHYCH **284**

Saxena, U.
Contrasting effect of phosphorylcholine-binding protein from rat and rabbit on heparin–lipoprotein interaction: a role of sialic acid
UDAY SAXENA, ARUN NAGPURKAR, and SAILEN MOOKERJEA **1014**

Schibler, M.J.
Maytansine-resistant mutants of Chinese hamster ovary cells with an alteration in α-tubulin
MATTHEW J. SCHIBLER and FERNANDO R. CABRAL **503**

Scrimgeour, K.G.
Activation of folylpolyglutamate synthetase by pteroic acid
P.J. VICKERS, R. DI CECCO, Z.B. PRISTUPA, and K.G. SCRIMGEOUR **777**

Seagull, R.W.
Comparison of microtubules and microfilaments in *Tipula* iridescent virus-infected and uninfected cells
ROBERT W. SEAGULL, PETER E. LEE, and MONICA FROSCH **543**

Sebag, M.
Biochemical changes in progressive muscular dystrophy. XIII. Nucleic acids, proteins, and total nucleotides in the thymus and spleen of dystrophic mice
UMA SRIVASTAVA, MIKAEL SEBAG, and MANOHAR THAKUR **325**

Sen, A.K.
The presence of a heat-stable cytosolic factor in rat submandibular gland which activates Na^+,K^+-ATPase
D.J. PON, D.J. STEWART, and A.K. SEN **774**

Serres-Guillaumond, M.
Involvement of phospholipids in the modulation of a membrane-bound brain fucosyltransferase
M. SERRES-GUILLAUMOND, P. BROQUET, and P. LOUISOT **296**

Sève, A.-P.
Nuclear RNA-associated proteins and their relationship to the nuclear matrix and related structures in HeLa cells
DOMINIQUE BOUVIER, JEAN HUBERT, ANNIE-PIERRE SÈVE, and MICHEL BOUTEILLE **631**

Shankaran, P.
Phosphatidylcholine and 4-methylumbelliferyl phosphorylcholine hydrolysis by purified placental sphingomyelinase
STUART J. FREEMAN, PREMA SHANKARAN, LEONHARD S. WOLFE, and JOHN W. CALLAHAN **272**

Shanks, J.
Concerning the location of the GTP hydrolysis site on microtubules
MICHAEL CAPLOW, JOHN SHANKS, and BRUNA PEGORARO BRYLAWSKI **422**

Sharom, F.J.
Effects of bovine serum albumin on the interaction of concanavalin A and succinyl-concanavalin A with phospholipid bilayers
CHRISTINA A. CHICKEN and FRANCES J. SHAROM **64**

Reconstitution of lymphocyte 5′-nucleotidase in lipid bilayers: behaviour and interaction with concanavalin A
FRANCES J. SHAROM, IAN LORIMER, and MARY P. LAMB **1049**

Shelling, J.G.
^1H nuclear magnetic resonance studies of ytterbium-substituted porcine intestinal calcium-binding protein
JUDITH G. SHELLING, THEO HOFMANN, and BRIAN D. SYKES **992**

Shiloach, J.
Insulin-related material in microbes: similarities and differences from mammalian insulins
DEREK LEROITH, JOSEPH SHILOACH, ROBERT HEFFRON, CHAIM RUBINOVITZ, ROBERT TANENBAUM, and JESSE ROTH **839**

Singer, S.S.
Enzymatic sulfation of steroids. XIX. Cortisol sulfotransferase activity, glucocorticoid sulfotransferases, and tyrosine aminotransferase induction in chicken, gerbil, and hamster liver
SANFORD S. SINGER, EDWARD G. GALASKA, THERESA A. FEESER, ROBERT L. BENAK, ANNE Z. ANSEL, and ANNE MOLONEY 23

Skehan, P.
Mechanisms of cholesterol synthesis inhibition by D-glucosamine
SUSAN J. FRIEDMAN, STANLEY CHENG, and PHILIP SKEHAN 1253

Smillie, L.B.
The interaction of rabbit skeletal muscle troponin-T fragments with troponin-I
JOYCE R. PEARLSTONE and LAWRENCE B. SMILLIE 212

Studies on the primary structure and antigenic determinants of pilin isolated from *Pseudomonas aeruginosa* K
PARIMI A. SASTRY, JOYCE R. PEARLSTONE, LAWRENCE B. SMILLIE, and WILLIAM PARANCHYCH 284

Smith, D.B.
The cross-linking of human Met-hemoglobin with [^{14}C]dimethyl adipimidate
ROBERT J. FERRIS and D.B. SMITH 195

Smith, M.J.
Actin gene number in the sea star *Pisaster ochraceus*
IMRE KOVESDI and MICHAEL J. SMITH 1145

Smith-Jones, L.
Substrate binding properties of the human liver hexosaminidase A activator protein
PETER HECHTMAN, CLAUDINE ISAACS, and LOUISE SMITH-JONES 830

Soler, J.
Cytoplasmic malate dehydrogenase from *Phycomyces blakesleeanus*: Kinetics and mechanism
FRANCISCO TEIXIDO, DOLORES DE ARRIAGA, FÉLIX BUSTO, and JOAQUIN SOLER 1097

Sone, N.
Complexes of cytochrome caa_3 from the thermophilic bacterium PS3 formed with ligands and during catalytic activity
N. SONE and P. NICHOLLS 153

Spence, M.W.
Triacylglycerol as a precursor in phospholipid biosynthesis in cultured neuroblastoma cells: studies with labeled glucose, fatty acid, and triacylglycerol
H.W. COOK and M.W. SPENCE 919

Srivastava, U.
Biochemical changes in progressive muscular dystrophy. XIII. Nucleic acids, proteins, and total nucleotides in the thymus and spleen of dystrophic mice
UMA SRIVASTAVA, MIKAEL SEBAG, and MANOHAR THAKUR 325

Stewart, D.J.
The presence of a heat-stable cytosolic factor in rat submandibular gland which activates Na^+,K^+-ATPase
D.J. PON, D.J. STEWART, and A.K. SEN 774

Suelter, C.H.
Erratum: Theory and practical application of coupled enzyme reactions: one and two auxiliary enzymes
S.P.J. BROOKS, T. ESPINOLA, and C.H. SUELTER 387

Erratum: Theory and practical application of coupled enzyme systems: one and two coupling enzymes with mutarotation of an intermediate
S.J. BROOKS, T. ESPINOLA, and C.H. SUELTER 387

Suhayda, C.G.
Citrate chelation as a potential mechanism against aluminum toxicity in cells: the role of calmodulin
CHARLES G. SUHAYDA and ALFRED HAUG 1167

Sychrová, H.
Studies on lectins. LIX. Isolation and properties of lectins from fruiting bodies of *Xerocomus chrysenteron* and *Lactarius lignyotus*
HANA SYCHROVÁ, MARIE TICHÁ, and JAN KOCOUREK 700

Sykes, B.D.
^{1}H nuclear magnetic resonance studies of ytterbium-substituted porcine intestinal calcium-binding protein
JUDITH G. SHELLING, THEO HOFMANN, and BRIAN D. SYKES 992

A ^{19}F nuclear magnetic resonance study of the interaction of carbon dioxide with fluoro-amino acids
HEATHER D. DETTMAN, JOEL H. WEINER, and BRIAN D. SYKES 1120

Tai, P.-K.K.
Isolation of dissimilar components of the 8.5S nonactivated uterine progestin receptor
PING-KAUNG KU TAI and LEE E. FABER 41

Tam, S.-P.
The effects of estrogen on apolipoprotein synthesis
ROGER G. DEELEY, SHUI-PANG TAM, and TREVOR K. ARCHER 882

Tanenbaum, R.
Insulin-related material in microbes: similarities and differences from mammalian insulins
DEREK LEROITH, JOSEPH SHILOACH, ROBERT HEFFRON, CHAIM RUBINOVITZ, ROBERT TANENBAUM, and JESSE ROTH 839

Taylor, P.A.
A statistical comparison of parameter estimation for the Michaelis–Menten kinetics of human placental hexos..minidase
R. TOMMASINI, L. ENDRENYI, P.A. TAYLOR, D.J. MAHURAN, and J.A. LOWDEN 225

Teixido, F.
Cytoplasmic malate dehydrogenase from *Phycomyces blakesleeanus*: Kinetics and mechanism
FRANCISCO TEIXIDO, DOLORES DE ARRIAGA, FÉLIX BUSTO, and JOAQUIN SOLER 1097

Templeton, D.M.
Metallothionein synthesis and localization in relation to metal storage in rat liver during gestation
DOUGLAS M. TEMPLETON, DIPONKAR BANERJEE, and M. GEORGE CHERIAN 16

Tener, G.M.
The nucleotide sequence of $tRNA^{Val}_{1a}$ and $tRNA^{Val}_{1b}$ from *Drosophila melanogaster*
W.R. Addison, I.C. Gillam, S. Hayashi, and G.M. Tener **176**

Tenniswood, M.
Measurement of vitellogenin from rainbow trout by rocket immunoelectrophoresis: application to the kinetic analysis of estrogen stimulation in the male
Jean Louis Maitre, Catherine Le Guellec, Stephane Derrien, Martin Tenniswood, and Yves Valotaire **982**

Thakur, M.
Biochemical changes in progressive muscular dystrophy. XIII. Nucleic acids, proteins, and total nucleotides in the thymus and spleen of dystrophic mice
Uma Srivastava, Mikael Sebag, and Manohar Thakur **325**

Tichá, M.
Studies on lectins. LIX. Isolation and properties of lectins from fruiting bodies of *Xerocomus chrysenteron* and *Lactarius lignyotus*
Hana Sychrová, Marie Tichá, and Jan Kocourek **700**

Tinker, D.O.
The modulation by serum albumin of rabbit platelet aggregation in response to exogenous sodium arachidonate
Ella Dratewka-Kos, Brigitte Kindl, David O. Tinker, and J. Carlton Hsia **792**

Tommasini, R.
Discrimination of the isozymes of human placental hexosaminidase by kinetic parameter estimation
R. Tommasini, D.J. Mahuran, and J.A. Lowden **219**

A statistical comparison of parameter estimation for the Michaelis–Menten kinetics of human placental hexosaminidase
R. Tommasini, L. Endrenyi, P.A. Taylor, D.J. Mahuran, and J.A. Lowden **225**

Tozzi, M.G.
Glucose 1,6-bisphosphate decline in human erythrocytes: possible involvement of phosphoglucomutase PGM_2 isoenzymes
Paolino Ninfali, Elena Piatti, Augusto Accorsi, Fulvio Palma, Antonio Fazi, Maria Grazia Tozzi, and Giorgio Fornaini **162**

Tremblay, J.P.
A monoclonal antibody of β-tubulin distinguishes a subset of neurons and axons in the chick ciliary ganglion
Jacques P. Tremblay, Claude Gravel, and Richard B. Hawkes **458**

Tremblay, R.R.
In vitro translation of mRNA for arginine esterase, the major secretory protein of dog prostate, and in vitro processing of the translation product
Pierre Chapdelaine, Jean Y. Dubé, Gilles Frenette, and Roland R. Tremblay **705**

Trifaró, J.-M.
Chromaffin cell cytoskeleton: its possible role in secretion
J.-M. Trifaró, M.-F. Bader, and J.-P. Doucet **661**

Valotaire, Y.
Measurement of vitellogenin from rainbow trout by rocket immunoelectrophoresis: application to the kinetic analysis of estrogen stimulation in the male
Jean Louis Maitre, Catherine Le Guellec, Stephane Derrien, Martin Tenniswood, and Yves Valotaire **982**

Vance, D.E.
Evaluation of possible mechanisms of phorbol ester stimulation of phosphatidylcholine synthesis in HeLa cells
H.W. Cook and D.E. Vance **145**

The role of phosphatidylcholine biosynthesis in the secretion of lipoproteins from hepatocytes
Jean E. Vance and Dennis E. Vance **870**

Vance, J.E.
The role of phosphatidylcholine biosynthesis in the secretion of lipoproteins from hepatocytes
Jean E. Vance and Dennis E. Vance **870**

van Huystee, R.B.
Spectral and kinetic properties of a cationic peroxidase secreted by cultured peanut cells
Anne-Marie Lambeir, H. Brian Dunford, Robert B. van Huystee, and Jerzy Lobarzewski **1086**

Venner, T.J.
Genetic and biochemical studies with mutants of mammalian cells affected in microtubule-related proteins other than tubulin: mitochondrial localization of a microtubule-related protein
Radhey S. Gupta, Thomas J. Venner, and Arvind Chopra **489**

Vetter, D.
In vitro recombination of bacteriophage T7 DNA: Further characterization of the reaction using plasmid DNA
Donald Lee, Dan Vetter, Linda Beatty, and Paul Sadowski **243**

Vickers, P.J.
Activation of folylpolyglutamate synthetase by pteroic acid
P.J. Vickers, R. Di Cecco, Z.B. Pristupa, and K.G. Scrimgeour **777**

Wanger, M.
The actin treadmill
Michael Wanger, Thomas Keiser, Jean-Marc Neuhaus, and Albrecht Wegner **414**

Wegner, A.
The actin treadmill
Michael Wanger, Thomas Keiser, Jean-Marc Neuhaus, and Albrecht Wegner **414**

Weihing, R.R.
The filamins: properties and functions
Robert R. Weihing **397**

Weiner, J.H.
A ^{19}F nuclear magnetic resonance study of the interaction of carbon dioxide with fluoro-amino acids
Heather D. Dettman, Joel H. Weiner, and Brian D. Sykes **1120**

Weisgraber, K.H.
Receptor interactions controlling lipoprotein metabolism
KARL H. WEISGRABER, THOMAS L. INNERARITY, STANLEY C. RALL, JR., and ROBERT W. MAHLEY **898**

Whitfield, J.F.
1α,25-Dihydroxyvitamin D_3 enables regenerating liver cells to make functional ribonucleotide reductase subunits and replicate DNA in thyroparathyroidectomized rats
T. YOUDALE, J.F. WHITFIELD, and R.H. RIXON **319**

Williams, R.E.
Assignment of lectins specific for D-galactose or *N*-acetyl-D-galactosamine to two groups, based on their circular dichroism
N. MARTIN YOUNG and ROSS E. WILLIAMS **268**

Williamson, D.G.
Studies on the uptake of fatty acids by brush border membranes of the rabbit intestine
P. PROULX, H. AUBRY, I. BRGLEZ, and D.G. WILLIAMSON **249**

Wolfe, L.S.
Phosphatidylcholine and 4-methylumbelliferyl phosphorylcholine hydrolysis by purified placental sphingomyelinase
STUART J. FREEMAN, PREMA SHANKARAN, LEONHARD S. WOLFE, and JOHN W. CALLAHAN **272**

Wu, G.E.
Site-directed cleavage of immunoglobulin gene segments by lymphoid cell extracts
GIACOMO D'AGOSTARO, EDITH HEVIA, GILLIAN E. WU, and HELIOS MURIALDO **969**

Wyatt, G.R.
The ribosomal RNA genes of *Locusta migratoria*: copy number and evidence for underreplication in a polyploid tissue
M. OISHI, J. LOCKE, and G.R. WYATT **1064**

Youdale, T.
1α,25-Dihydroxyvitamin D_3 enables regenerating liver cells to make functional ribonucleotide reductase subunits and replicate DNA in thyroparathyroidectomized rats
T. YOUDALE, J.F. WHITFIELD, and R.H. RIXON **319**

Young, N.M.
Assignment of lectins specific for D-galactose or *N*-acetyl-D-galactosamine to two groups, based on their circular dichroism
N. MARTIN YOUNG and ROSS E. WILLIAMS **268**

Younghusband, H.B.
An association between replicating adenovirus DNA and the nuclear matrix of infected HeLa cells
H.B. YOUNGHUSBAND **654**

Zimmerman, A.M.
Actin and tubulin in *Tetrahymena*
E. JANE MITCHELL, SELMA ZIMMERMAN, and ARTHUR M. ZIMMERMAN **389**

Zimmerman, S.
Actin and tubulin in *Tetrahymena*
E. JANE MITCHELL, SELMA ZIMMERMAN, and ARTHUR M. ZIMMERMAN **389**

Ziola, B.
Cell sonicates used in the analysis of how measles and herpes simplex type 1 virus infections influence Vero cell mitochondrial calcium uptake
KAREN LUND and BARRY ZIOLA **1194**

CANADIAN JOURNAL OF BIOCHEMISTRY AND CELL BIOLOGY/ REVUE CANADIENNE DE BIOCHIMIE ET BIOLOGIE CELLULAIRE

VOLUME 63 (1985)

SUBJECT INDEX/INDEX DES MATIÈRES

Acetamidodideoxymethylglucose polysaccharide Vibrio 1265
Acetate malic enzyme Escherichia 128
Acetylhexosaminidase beta isoenzyme discrimination placenta 219
Acetylhexosaminidase beta kinetics detn placenta 225
Acetylneuraminate serotonin assocn 757
Achlya protein formation antheridiol morphogenesis 355
ACI rat histocompatibility class II antigen 1241
Acridinylanisidide DNA intercalation topoisomerase 780
Actin based motility mating model 599
Actin chromosome movement anaphase review 585
Actin filament assembly disassembly treadmill review 414
Actin gene sea star 1145
Actin interaction filamin review 397
Actin Tetrahymena 389
Active site succinyl CoA synthetase Escherichia 57
Acyltransferase monoacylglycerol intestine mucosa 341
Adenovirus DNA binding protein kinase 941
Adenovirus DNA replication nucleus 654
Adenylate cyclase adipose tissue obesity 7
Adhesion retinal pigmented epithelial cell 553
Adipose brown uncoupling protein mammal 96
Adipose tissue adenylate cyclase obesity 7
Adipose tissue uncoupling protein mammal 988
Adroxazine lymphoblast replication 122
Aesculetin formation umbelliferone Cichorium 292
Aggregation platelet arachidonate albumin 792
Aging erythrocyte polyphosphoinositide metab 927
Albumin Con A binding liposome 64
Albumin ganglioside GM2 830
Albumin platelet aggregation arachidonate 792
Allogromia cell surface motility cytoplasmic microtubule 608
Aluminum calmodulin citrate 1167
Amino acid fluoro reaction carbon dioxide 1120
Aminotransferase tyrosine liver cortisol 23
Amylase transport Schwanniomyces 366
Anaphase chromosome movement actin review 585
Androgen dependent protein mammary carcinoma 1231
Androgen prostate arginine esterase mRNA 705
Androgen receptor cytosol muscle hypertrophy 348
Antheridiol protein formation Achlya morphogenesis 355
Antibody apolipoprotein structure function review 906
Antibody monoclonal pregnancy specific glycoprotein 737
Antibody monoclonal progestin receptor 33
Antibody monoclonal tubulin 458
Antibody RNA polymerase II eukaryote 1217
Antigen histocompatibility class II ACI rat 1241
Antigen nuclear matrix 644
Antigen pilin sequence Pseudomonas 284
Aorta glycoprotein binding collagen 1176
Apolipoprotein formation estrogen review 882
Apolipoprotein lipoprotein metab review 850
Apolipoprotein receptor lipoprotein metab review 898
Apolipoprotein structure function antibody review 906
Arachidonate platelet aggregation albumin 792
Arginine esterase mRNA translation prostate 705
Atherosclerosis heparin lipoprotein interaction 1014
ATP binding protein adenovirus 941
ATPase activator submandibular gland cytosol 774
ATPase fatty acid reductase Photobacterium 1106
Axon tubulin 458
Bacteria thermophilic PS3 cytochrome oxidase complex 153
Bacteriorhodopsin Halobacterium purple membrane 305
Basket cell neurofilament protein development hypothyroidism 564
Bee venom melittin phospholipid membrane permeability 1
Blood platelet activating factor thermotropic 1071
Blood platelet aggregation arachidonate albumin 792
Blood platelet growth factor property 187
Brain ischemia fatty acid organelle 1183
Brain microsome fucosyltransferase phospholipid 296
Brain microtubule assocd protein 372
Brain neurofilament protein immunoenzymic staining 577
Brown adipose uncoupling protein mammal 96
Brush border intestine fatty acid transport 249
C reactive protein heparin lipoprotein interaction 1014
Cadaver neurofilament protein staining 577
Cadmium glutathione peroxidase liver 1212
Caenorhabditis transposable element Tc1 752
Caffeine phosphorylase a phosphatase 115
Calcium chloride RNase denaturation thermodn 1058
Calcium heart troponin C tryptic peptide 812
Calcium oncomodulin conformation 998
Calcium protein ytterbium substitution NMR 992
Calcium vero cell mitochondria sonication 1194
Calmodulin aluminum citrate 1167
Candida beta glucosidase 1160
Capsule polysaccharide structure Streptococcus 953
Carbon dioxide reaction fluoro amino acid 1120
Carboxyl protein methylation demethylation thymocyte 1112
Carcinoma cell lysis UV superoxide 278
Carcinoma mammary androgen dependent protein 1231
CD lectin plant taxonomy 268
Cell carcinoma lysis UV superoxide 278
Cell CHO tubulin gene cloning 511
Cell retinal pigmented epithelial adhesion 553
Cell surface motility Allogromia cytoplasmic microtubule 608
Cellobiohydrolase glucan product Sclerotium 1250
Cellobiose beta glucosidase kinetics 167
Cellodextrin beta glucosidase Candida 1160
Centrifugation ooplasm viscoelasticity detn 743
Cerulenin inhibition lipid formation Mycobacterium 85
Chicken embryo thyroid hormone protein 1206
CHO cell tubulin gene cloning 511
CHO mutant maytansine resistant tubulin 503
CHO mutant purine nucleoside phosphorylation 1044
Cholate rhodopsin photocycle intermediate 1152
Cholesterol formation tumor glucosamine 1253
Chorion hydroxy steroid dehydrogenase kinetics 183
Chromaffin secretion cytoskeleton protein review 661
Chromatin relaxation polyADP ribosylated histone 764
Chromosome movement anaphase actin review 585
Chromosome protein erythroid DNA 824
Chylomicron metab review 890
Cichorium aesculetin formation umbelliferone 292
Ciliary ganglion tubulin 458
Citrate aluminum calmodulin 1167
Cleavage RNase RNA virus 382
Cloning CHO cell tubulin gene 511
Collagen binding aorta glycoprotein 1176
Computer simulation isoenzyme kinetics comparison 225
Con A binding liposome albumin 64
Con A nucleotidase reconstitution liposome 1049

Conformation oncomodulin calcium 998
Correction coupled enzyme mutarotation intermediate algorithm 387
Correction coupled enzyme system theory application 387
Cortisol sulfation liver species 23
Coupled enzyme mutarotation intermediate algorithm correction 387
Coupled enzyme system theory application correction 387
Crosslinking metHb dimethyl adipimidate 195
Crosslinking tubulin ethylenebisiodoacetamide evolution 439
Culture myoblast hamster dystrophy 730
Cyclase adenylate adipose tisaue obesity 7
Cyclohydrolase methenyltetrahydrofolate formation neoplasm 1189
Cytochrome oxidase complex thermophilic bacteria PS3 153
Cytokeratin hepatocyte differentiation dexamethasone 448
Cytoplasm malate dehydrogenase Phycomyces mechanism 1097
Cytoplasmic process elongation gametic mating 599
Cytoskeleton protein chromaffin secretion review 661
Cytoskeleton protein pancreas secretory cell 680
Cytosol muscle androgen receptor hypertrophy 348
Cytosol submandibular gland ATPase activator 774
Cytostomal app intermicrotubule linker Tetramitus 533
Deacylation phosphatidylethanolamine liver phospholipase 137
Dehydrase hydroxyacyl fatty acid synthetase 50
Dehydrogenase hydroxy steroid kinetics organ 183
Dehydrogenase malate cytoplasm Phycomyces mechanism 1097
Dehydrogenase methylenetetrahydrofolate formation neoplasm 1189
Demethylation protein carboxyl thymocyte 1112
Denaturation RNase calcium lithium chloride thermodn 1058
Desmin heart muscle dystrophy 430
Detergent rhodopsin photocycle intermediate 1152
Development neurofilament protein basket cell hypothyroidism 564
Dexamethasone cytokeratin hepatocyte differentiation 448
Dihydroxyvitamin D3 liver thyroparathyroidectomy 319
Dimethyl adipimidate crosslinking metHb 195
DNA binding protein kinase adenovirus 941
DNA concatemer formation phage T7 237
DNA erythroid chromosome protein 824
DNA formation liver dihydroxyvitamin D3 319
DNA formation lymphoblast adroxazine 122
DNA fragment intercalator polypeptide 780
DNA oligomer RNA enzymic cleavage 382
DNA recombination phage T7 243
DNA replication adenovirus nucleus 654
DNA single strand break leukemia myeloma 977
DNA thymus muscular dystrophy 325
Drosophila valine specific tRNA sequence 176
Dystrophy muscle desmin heart 430
Dystrophy muscular thymus protein DNA RNA 325
Dystrophy myoblast culture hamster 730
Egg meiosis goldfish hydroxyprogesterone microfilament 743
Electrophoresis gel tubulin spindle taxol 519
Elongation gametic mating cytoplasmic process 599
Embryo estrogen conjugation 785
Embryo protein thyroid hormone chicken 1206
Enoyl reductase fatty acid synthetase 50
Enzyme coupled system theory application correction 387
Enzyme malic NADP Escherichia regulation 128
Epididymis hydroxysteroid sulfotransferase 71
Epithelial retinal pigmented cell adhesion 553
Erythrocyte glucose diphosphate metab phosphoglucomutase isoenzyme 162
Erythrocyte marginal band mech function 621
Erythrocyte nonhistone protein chromatin 824
Erythrocyte polyphosphoinositide metab aging 927
Erythroid DNA chromosome protein 824
Escherichia insulin 839
Escherichia malic enzyme NADP regulation 128
Escherichia succinyl CoA synthetase active site 57
Ester sucrose rhodopsin photocycle intermediate 1152
Esterase arginine mRNA translation prostate 705
Estrogen apolipoprotein formation review 882
Estrogen conjugation embryo adult 785
Estrogen Salmo vitellogenin 982
Ethylenebisiodoacetamide crosslinking tubulin evolution 439
Eukaryote RNA polymerase II antibody 1217
Euphorbain t multiple form Euphorbia 1093
Euphorbia euphorbain t multiple form 1093
Evolution tubulin crosslinking ethylenebisiodoacetamide 439
Exonuclease gene 6 phage T7 237
Fat body rRNA gene Locusta 1064
Fatty acid lipid formation cerulenin 85
Fatty acid organelle brain ischemia 1183
Fatty acid reductase ATPase Photobacterium 1106
Fatty acid synthetase peptide reductase dehydrase 50
Fatty acid transport intestine brush border 249
Fetus metallothionein metal storage liver 16
Fibroblast proliferation platelet growth factor 187
Filament actin assembly disassembly treadmill review 414
Filamin structure function review 397
Fluoro amino acid reaction carbon dioxide 1120
Focal adhesion retinal epithelial cell 553
Fodrin microtubule brain 372
Folylpolyglutamate synthetase liver pteroate 777
Formyltetrahydrofolate synthetase formation neoplasm 1189
Fruiting body lectin Xerocomus Lactarius 700
Fucosyltransferase brain microsome phospholipid 296
Gametic mating cytoplasmic process elongation 599
Ganglion ciliary tubulin 458
Ganglioside GM2 hexosaminidase activator protein 830
Gel electrophoresis tubulin spindle taxol 519
Gelatin myoblast culture 730
Gene actin sea star 1145
Gene Ig cleavage lymphoid cell 969
Gene rRNA copy number Locusta 1064
Gene tubulin CHO cell cloning 511
Gene 6 exonuclease phage T7 237
Genetics microtubule function review 479
Germin mRNA wheat development 1003
Germinal vesicle migration goldfish microfilament 743
Gland submandibular cytosol ATPase activator 774
Glucan cellobiohydrolase product Sclerotium 1250
Glucoamylase maltase subunit homol intestine 257
Glucocorticoid sulfotransferase liver species 23
Glucocorticosteroid cytokeratin hepatocyte differentiation 448
Glucosamine cholesterol formation tumor 1253
Glucose diphosphate metab erythrocyte phosphoglucomutase isoenzyme 162
Glucose glycogen formation hepatocyte 333
Glucose phosphorylase a phosphatase 115
Glucosidase beta Candida 1160
Glucosidase beta cellobiose kinetics 167
Glutathione peroxidase liver mercury cadmium 1212
Glyceride phospholipid formation neuroblastoma 919
Glycogen formation glucose hepatocyte 333
Glycoprotein aorta binding collagen 1176
Glycoprotein pregnancy specific monoclonal antibody 737
Goldfish germinal vesicle migration microfilament 743
Grasshopper rRNA gene replication 1064
Growth factor platelet purifn property 187
GTP hydrolysis tubulin microtubule 422
GTPase location microtubule assembly 422
Halobacterium purple membrane bacteriorhodopsin 305
Hamster myoblast culture dystrophy 730
Hb met crosslinking dimethyl adipimidate 195
Heart desmin muscle dystrophy 430
Heart troponin C tryptic peptide calcium 812
Heat shock protein formation lymphocyte 711

Heat shock protein formation muscle 231
HeLa cell phosphatidylcholine phorbol ester 145
HeLa nucleus matrix RNA protein 631
Heparin lipoprotein interaction phosphorylcholine binding protein 1014
Hepatocyte differentiation cytokeratin dexamethasone 448
Hepatocyte glycogen formation glucose 333
Hepatocyte lipoprotein secretion phosphatidylcholine review 870
Herpes simplex virus mitochondria calcium 1194
Hexosaminidase A activator protein liver 830
Hexosaminidase beta oligosaccharide structure placenta 723
Histocompatibility class II antigen ACI rat 1241
Histone H1 oligonucleosome pptn mononucleosome 1022
Histone polyADP ribosylated chromatin relaxation 764
Hydration Em protein wheat 803
Hydrogen peroxide cell lysis UV 278
Hydroxy steroid dehydrogenase kinetics organ 183
Hydroxyacyl dehydrase fatty acid synthetase 50
Hydroxyprogesterone egg meiosis goldfish microfilament 743
Hydroxysteroid sulfotransferase epididymis 71
Hypertrophy muscle cytosol androgen receptor 348
Hypothyroidism basket cell development neurofilament protein 564
Ig gene cleavage lymphoid cell 969
Immunochem RNA polymerase II structure 1217
Immunoelectrophoresis rocket vitellogenin 982
Immunoenzymic staining protein neurofilament brain 577
Insect juvenile hormone binding ovary 102
Insulin Escherichia Tetrahymena 839
Intercalator DNA fragment polypeptide 780
Interleukin 2 review 691
Intermicrotubule linker cytostomal app Tetramitus 533
Intestine brush border fatty acid transport 249
Intestine maltase glucoamylase subunit homol 257
Intestine mucosa monoacylglycerol acyltransferase 341
Intestine triglyceride synthetase complex 107
Invertebrate erythrocyte marginal band microtubule 621
Ischemia brain fatty acid organelle 1183
Isoenzyme beta acetylhexosaminidase discrimination placenta 219
Isoenzyme kinetics comparison computer simulation 225
Isoenzyme phosphoglucomutase glucose diphosphate metab erythrocyte 162
Juvenile hormone binding ovary Rhodnius 102
Ketoacyl reductase fatty acid synthetase 50
Kidney estrogen conjugation 785
Kidney mRNA translatability mercury 913
Kidney protein p105 stress neoplastic transformation 1258
Kinase DNA binding protein adenovirus 941
Lactarius fruiting body lectin 700
Lectin CD plant 268
Lectin Xerocomus Lactarius fruiting body 700
Leukemia DNA single strand break 977
Linker intermicrotubule cytostomal app Tetramitus 533
Lipase review 890
Lipid formation Mycobacterium inhibition cerulenin 85
Lipid water stress root membrane 77
Lipopolysaccharide core structure Vibrio 1199
Lipoprotein heparin interaction phosphorylcholine binding protein 1014
Lipoprotein metab apolipoprotein receptor review 898
Lipoprotein metab apolipoprotein review 850
Lipoprotein metab review 890
Lipoprotein secretion hepatocyte phosphatidylcholine review 870
Liposome Con A binding albumin 64
Liposome phospholipid nucleotidase reconstitution 1049
Lithium chloride RNase denaturation thermodn 1058
Liver cortisol sulfation species 23
Liver dihydroxyvitamin D3 thyroparathyroidectomy 319
Liver estrogen apolipoprotein formation review 882
Liver estrogen conjugation 785
Liver fatty acid synthetase multidomain fragment 50
Liver folylpolyglutamate synthetase pteroate 777
Liver glutathione peroxidase mercury cadmium 1212
Liver glycogen formation glucose 333
Liver hexosaminidase A activator protein 830
Liver lipoprotein secretion phosphatidylcholine review 870
Liver metallothionein metal storage ontogeny 16
Liver phospholipase phosphatidylethanolamine deacylation 137
Liver phosphorylase a phosphatase regulation 115
Locusta rRNA gene copy number 1064
Lymphoblast replication adroxazine 122
Lymphocyte heat shock protein formation 711
Lymphocyte nucleotidase reconstitution phospholipid liposome 1049
Lymphocyte phytohemagglutinin binding receptor 1033
Lymphocyte phytohemagglutinin receptor purifn 932
Lymphoid cell Ig gene cleavage 969
Lysin phospholipid membrane permeability 1
Magnesium adenylate cyclase obesity 7
Malate dehydrogenase cytoplasm Phycomyces mechanism 1097
Malic enzyme NADP Escherichia regulation 128
Maltase glucoamylase subunit homol intestine 257
Mammal uncoupling protein mol wt 988
Mammary carcinoma androgen dependent protein 1231
Manganese adenylate cyclase obesity 7
Marginal band microtubule invertebrate erythrocyte 621
Mating gametic cytoplasmic process elongation 599
Maytansine resistant CHO mutant tubulin 503
Measles virus mitochondria calcium 1194
Meiosis egg goldfish hydroxyprogesterone microfilament 743
Melanin cell lysis UV 278
Melittin phospholipid membrane permeability 1
Membrane permeability phospholipid lysin melittin 1
Membrane purple bacteriorhodopsin Halobacterium 305
Membrane root water stress lipid 77
Mercury glutathione peroxidase liver 1212
Mercury kidney mRNA translatability 913
Metallothionein metal storage liver ontogeny 16
Metallothionein zinc thymus ontogeny 91
MetHb crosslinking dimethyl adipimidate 195
Methenyltetrahydrofolate cyclohydrolase formation neoplasm 1189
Methylation protein carboxyl thymocyte 1112
Methylenetetrahydrofolate dehydrogenase formation neoplasm 1189
Methylmercury glutathione peroxidase liver 1212
Methylumbelliferyl phosphorylcholine sphingomyelinase placenta 272
Microfilament germinal vesicle migration goldfish 743
Microfilament Tipula iridescent virus infection 543
Microscopy mitotic spindle taxol 519
Microsome brain fucosyltransferase phospholipid 296
Microtubule assocd protein brain 372
Microtubule GTPase location assembly 422
Microtubule marginal band invertebrate erythrocyte 621
Microtubule mutant mitochondria protein review 489
Microtubule mutant review 479
Microtubule polarity mitotic spindle taxol 519
Microtubule Tipula iridescent virus infection 543
Milk bush proteinase euphorbain t 1093
Mitochondria calcium sonication vero cell 1194
Mitochondria protein microtubule mutant review 489
Mitochondria uncoupling protein mammal 988
Mitotic spindle taxol microtubule polarity 519
Model actin based motility mating 599
Mol wt uncoupling protein mammal 988
Monoacylglycerol acyltransferase intestine mucosa 341
Monoclonal antibody pregnancy specific glycoprotein 737
Monoclonal antibody progestin receptor 33
Monoclonal antibody RNA polymerase II mushroom 1217
Monoclonal antibody tubulin 458
Mononucleosome isolation histone H1 1022
Morphogenesis Achlya protein formation antheridiol 355
Motility actin based mating model 599

Motility cell surface Allogromia cytoplasmic microtubule 608
mRNA arginine esterase translation prostate 705
mRNA germin wheat development 1003
mRNA kidney translatability mercury 913
mRNA protein formation muscle heat 231
Muscle cytosol androgen receptor hypertrophy 348
Muscle dystrophy desmin heart 430
Muscle protein formation heat shock 231
Muscle troponin T 470
Muscular dystrophy thymus protein DNA RNA 325
Mushroom monoclonal antibody RNA polymerase II 1217
Mutant CHO maytansine resistant tubulin 503
Mutant CHO purine nucleoside phosphorylation 1044
Mutant microtubule mitochondria protein review 489
Mutant microtubule review 479
Mycobacterium lipid formation inhibition cerulenin 85
Myeloma DNA single strand break 977
Myoblast culture hamster dystrophy 730
NADPH fatty acid reductase ATPase Photobacterium 1106
Neoplasm methylenetetrahydrofolate dehydrogenase formation 1189
Neoplastic transformation protein p105 kidney stress 1258
Neuroblastoma phospholipid formation glyceride 919
Neurofilament protein basket cell development hypothyroidism 564
Neurofilament protein immunoenzymic staining brain 577
Newborn metallothionein metal storage liver 16
NMR carbon dioxide fluoroamino acid 1120
NMR ytterbium substitution calcium protein 992
Nonmuscle troponin T 470
Nuclear matrix antigen 644
Nucleoside purine phosphorylation CHO mutant 1044
Nucleotidase reconstitution phospholipid liposome 1049
Nucleus adenovirus DNA replication 654
Nucleus envelope mammary carcinoma androgen 1231
Nucleus matrix RNA protein HeLa 631
Oat water stress lipid fluidity 77
Obesity adenylate cyclase adipose tissue 7
Oligonucleosome pptn histone H1 mononucleosome 1022
Oligosaccharide structure beta hexosaminidase placenta 723
Oncomodulin conformation calcium 998
Ontogeny metallothionein metal storage liver 16
Ontogeny zinc metallothionein thymus 91
Oocyte germinal vesicle microfilament goldfish 743
Ooplasm viscoelasticity detn centrifugation 743
Organ hydroxy steroid dehydrogenase kinetics 183
Organelle fatty acid brain ischemia 1183
Ovary hydroxy steroid dehydrogenase kinetics 183
Ovary juvenile hormone binding Rhodnius 102
Oxidase cytochrome complex thermophilic bacteria PS3 153
Pancreas secretory cell cytoskeleton protein 680
Parvalbumin conformation c 998
Peanut peroxidase kinetics mechanism spectra 1086
Penicillium beta xylosidase kinetics mechanism 204
Peptide fatty acid synthetase reductase dehydrase 50
Permeability membrane phospholipid lysin melittin 1
Peroxidase glutathione liver mercury cadmium 1212
Peroxidase kinetics mechanism spectra peanut 1086
Peroxide hydrogen cell lysis UV 278
Phage T7 DNA concatemer formation 237
Phage T7 DNA recombination 243
Phase behavior platelet activating factor 1071
Phenylmercury glutathione peroxidase liver 1212
Phorbol ester phosphatidylcholine HeLa cell 145
Phosphatase phosphorylase a glucose caffeine 115
Phosphatidylcholine HeLa cell phorbol ester 145
Phosphatidylcholine hepatocyte lipoprotein secretion review 870
Phosphatidylcholine hydrolysis phospholipase phospholipid 263
Phosphatidylcholine hydrolysis sphingomyelinase placenta 272
Phosphatidylethanolamine deacylation liver phospholipase 137
Phosphoglucomutase isoenzyme glucose diphosphate metab erythrocyte 162
Phospholipase C sphingomyelinase placenta 272
Phospholipase hydrolysis phosphatidylcholine phospholipid 263
Phospholipase liver phosphatidylethanolamine deacylation 137
Phospholipid brain microsome fucosyltransferase 296
Phospholipid deacylation liver phospholipase 137
Phospholipid formation glyceride neuroblastoma 919
Phospholipid liposome nucleotidase reconstitution 1049
Phospholipid membrane permeability lysin melittin 1
Phospholipid phospholipase hydrolysis phosphatidylcholine 263
Phospholipid rhodopsin photocycle intermediate 1152
Phosphorylase a phosphatase glucose caffeine 115
Phosphorylation purine nucleoside CHO mutant 1044
Phosphorylcholine binding protein heparin lipoprotein interaction 1014
Photobacterium fatty acid reductase 1106
Photocycle rhodopsin intermediate detergent phospholipid 1152
Phycomyces cytoplasm malate dehydrogenase mechanism 1097
Phytohemagglutinin binding receptor lymphocyte 1033
Phytohemagglutinin receptor purifn lymphocyte 932
Pigmented retinal epithelial cell adhesion 553
Pilin sequence antigen Pseudomonas 284
Pisaster actin gene 1145
Placenta beta acetylhexosaminidase isoenzyme discrimination 219
Placenta beta acetylhexosaminidase kinetics detn 225
Placenta beta hexosaminidase oligosaccharide structure 723
Placenta hydroxy steroid dehydrogenase kinetics 183
Placenta sphingomyelinase phospholipase C 272
Platelet activating factor thermotropic behavior 1071
Platelet aggregation arachidonate albumin 792
Platelet growth factor purifn property 187
PolyADP ribosylated histone chromatin relaxation 764
Polymerase RNA II structure immunochem 1217
Polypeptide DNA fragment intercalator 780
Polyphosphoinositide metab erythrocyte aging 927
Polysaccharide acetamidodideoxymethylglucose Vibrio 1265
Polysaccharide structure capsule Streptococcus 953
Potassium malic enzyme Escherichia 128
Pptn oligonucleosome histone H1 mononucleosome 1022
Pregnancy specific glycoprotein monoclonal antibody 737
Progestin receptor monoclonal antibody 33
Progestin receptor uterus isolation 41
Prostate arginine esterase mRNA translation 705
Protein activator hexosaminidase A liver 830
Protein androgen dependent mammary carcinoma 1231
Protein calcium ytterbium substitution NMR 992
Protein carboxyl methylation demethylation thymocyte 1112
Protein chromosome erythroid DNA 824
Protein cytoskeleton chromaffin secretion review 661
Protein cytoskeleton pancreas secretory cell 680
Protein DNA binding kinase adenovirus 941
Protein Em property wheat 803
Protein formation Achlya antheridiol morphogenesis 355
Protein formation muscle heat shock 231
Protein heat shock formation lymphocyte 711
Protein microtubule assocd brain 372
Protein mitochondria microtubule mutant review 489
Protein neurofilament basket cell development hypothyroidism 564
Protein neurofilament immunoenzymic staining brain 577
Protein phosphorylcholine binding heparin lipoprotein interaction 1014
Protein p105 kidney stress neoplastic transformation 1258
Protein RNA HeLa nucleus matrix 631

Protein testis binding sulfogalactolipid 1077
Protein thymus muscular dystrophy 325
Protein thyroid hormone embryo chicken 1206
Protein uncoupling brown adipose mammal 96
Protein uncoupling mol wt mammal 988
Proteinase euphorbain t milk bush 1093
Pseudomonas pilin sequence antigen 284
Pteroate folylpolyglutamate synthetase liver 777
Purine nucleoside phosphorylation CHO mutant 1044
Purple membrane bacteriorhodopsin Halobacterium 305
Rat ACI histocompatibility class II antigen 1241
Receptor androgen cytosol muscle hypertrophy 348
Receptor apolipoprotein lipoprotein metab review 898
Receptor phytohemagglutinin binding lymphocyte 1033
Receptor phytohemagglutinin purifn lymphocyte 932
Receptor progestin monoclonal antibody 33
Receptor progestin uterus isolation 41
Recombination DNA phage T7 243
Reductase enoyl ketoacyl fatty acid synthetase 50
Reductase fatty acid ATPase Photobacterium 1106
Reductase ribonucleotide subunit dihydroxyvitamin D3 319
Replication rRNA gene grasshopper 1064
Reticulocyte nonhistone protein chromatin 824
Retinal pigmented epithelial cell adhesion 553
Review actin chromosome movement anaphase 585
Review actin filament assembly disassembly treadmill 414
Review apolipoprotein receptor lipoprotein metab 898
Review apolipoprotein structure function antibody 906
Review chromaffin secretion cytoskeleton protein 661
Review estrogen apolipoprotein formation 882
Review filamin structure function 397
Review hepatocyte lipoprotein secretion phosphatidylcholine 870
Review interleukin 2 691
Review lipoprotein metab 890
Review lipoprotein metab apolipoprotein 850
Review microtubule mutant 479
Review microtubule mutant mitochondria protein 489
Review ribosome analysis 313
Review steroid sulfotransferase sulfatase 1127
Rhodnius juvenile hormone binding ovary 102
Rhodopsin photocycle intermediate detergent phospholipid 1152
Ribonucleotide reductase subunit dihydroxyvitamin D3 319
Ribosome analysis review 313
Ribosylated polyADP histone chromatin relaxation 764
RNA cleavage tobacco mosaic virus 382
RNA polymerase II structure immunochem 1217
RNA protein HeLa nucleus matrix 631
RNA thymus muscular dystrophy 325
RNase cleavage RNA virus 382
RNase denaturation calcium lithium chloride thermodn 1058
Rocket immunoelectrophoresis vitellogenin 982
Root membrane water stress lipid 77
rRNA gene copy number Locusta 1064
Salmo serum vitellogenin detn 982
Schwanniomyces amylase transport 366
Sclerotium glucan cellobiohydrolase product 1250
Sea star actin gene 1145
Secretory cell pancreas cytoskeleton protein 680
Sequence pilin antigen Pseudomonas 284
Sequence valine specific tRNA Drosophila 176
Serotonin acetylneuraminate assocn 757
Serum vitellogenin detn Salmo 982
Sialate phosphorylcholine binding protein atherosclerosis 1014
Simulation computer isoenzyme kinetics comparison 225
Sonication vero cell mitochondria calcium 1194
Spectra peroxidase peanut 1086
Sphingomyelinase phospholipase C placenta 272
Spleen protein DNA RNA muscular dystrophy 325
Staining immunoenzymic protein neurofilament brain 577
Staphylococcus lysin phospholipid membrane permeability 1
Steroid sulfotransferase sulfatase review 1127
Streptococcus capsule polysaccharide structure 953
Stress protein p105 kidney neoplastic transformation 1258
Structure polysaccharide capsule Streptococcus 953
Submandibular gland cytosol ATPase activator 774
Subunit homol maltase glucoamylase intestine 257
Subunit succinyl CoA synthetase modification interaction 57
Succinyl CoA synthetase subunit modification interaction 57
Sucrose ester rhodopsin photocycle intermediate 1152
Sulfatase steroid review 1127
Sulfation cortisol liver species 23
Sulfogalactolipid binding testis protein 1077
Sulfotransferase cortisol liver species 23
Sulfotransferase hydroxysteroid epididymis 71
Sulfotransferase steroid review 1127
Superoxide carcinoma cell lysis UV 278
Surface motility cell Allogromia cytoplasmic microtubule 608
Synthetase fatty acid peptide reductase dehydrase 50
Synthetase folylpolyglutamate liver pteroate 777
Synthetase formyltetrahydrofolate formation neoplasm 1189
Synthetase succinyl CoA subunit modification interaction 57
Synthetase triglyceride complex intestine 107
Taxol mitotic spindle microtubule polarity 519
Taxonomy plant CD lectin 268
Tc1 transposable element Caenorhabditis 752
Testis protein binding sulfogalactolipid 1077
Tetrahymena actin tubulin 389
Tetrahymena insulin 839
Tetramitus intermicrotubule linker cytostomal app 533
Thermodn RNase denaturation calcium lithium chloride 1058
Thermophilic bacteria PS3 cytochrome oxidase complex 153
Thermotropic behavior platelet activating factor 1071
Thymocyte protein carboxyl methylation demethylation 1112
Thymus protein DNA RNA muscular dystrophy 325
Thymus zinc metallothionein ontogeny 91
Thyroid hormone protein embryo chicken 1206
Thyroparathyroidectomy liver dihydroxyvitamin D3 319
Tipula iridescent virus infection cell 543
Tobacco mosaic virus RNA cleavage 382
Transformation neoplastic protein p105 kidney stress 1258
Translatability kidney mRNA mercury 913
Transport amylase Schwanniomyces 366
Transport fatty acid intestine brush border 249
Transposable element Tc1 Caenorhabditis 752
Triglyceride synthetase complex intestine 107
tRNA valine specific sequence Drosophila 176
Troponin C tryptic peptide calcium heart 812
Troponin I binding T fragment 212
Troponin T muscle nonmuscle 470
Tryptic peptide troponin C calcium heart 812
Tubulin ciliary ganglion axon 458
Tubulin crosslinking ethylenebisiodoacetamide evolution 439
Tubulin gene CHO cell cloning 511
Tubulin GTP hydrolysis microtubule 422
Tubulin maytansine resistant CHO mutant 503
Tubulin spindle gel electrophoresis taxol 519
Tubulin Tetrahymena 389
Tumor cholesterol formation glucosamine 1253
Tyrosine aminotransferase liver cortisol 23
T7 phage DNA concatemer formation 237
T7 phage DNA recombination 243
Umbelliferone aesculetin formation Cichorium 292
Uncoupling protein brown adipose mammal 96
Uncoupling protein mol wt mammal 988
Uterus progestin receptor antibody 33
Uterus progestin receptor isolation 41
UV carcinoma cell lysis superoxide 278

Valine specific tRNA sequence Drosophila 176
Venom bee melittin phospholipid membrane permeability 1
Vero cell mitochondria calcium sonication 1194
Vibrio lipopolysaccharide core structure 1199
Vibrio polysaccharide acetamidodideoxymethylglucose 1265
Virus Tipula iridescent infection cell 543
Virus tobacco mosaic RNA cleavage 382
Virus vero cell mitochondria calcium 1194
Viscoelasticity ooplasm detn centrifugation 743
Vitellogenin detn Salmo serum 982
Water stress lipid root membrane 77
Wheat Em protein property 803
Wheat germin development mRNA 1003
Xerocomus fruiting body lectin 700
Xylosidase beta kinetics mechanism Penicillium 204
Ytterbium substitution calcium protein NMR 992
Zinc metallothionein thymus ontogeny 91